

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

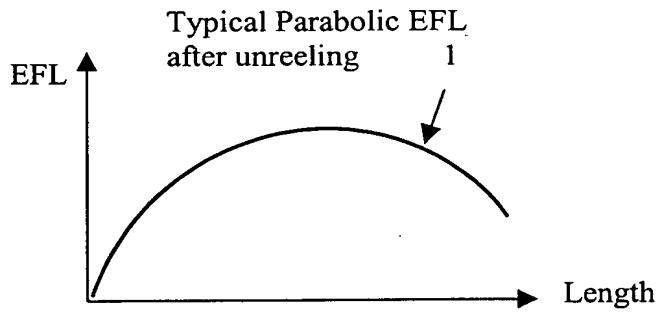


FIGURE 1
Prior Art

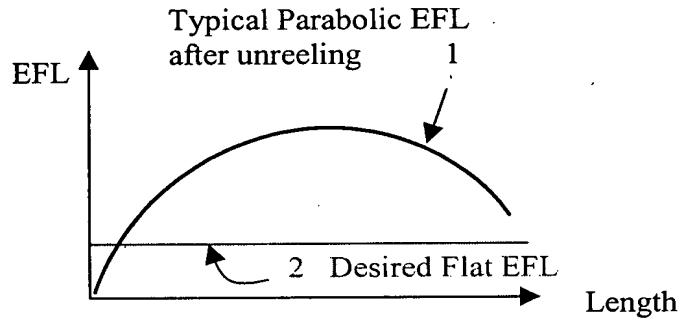


FIGURE 2

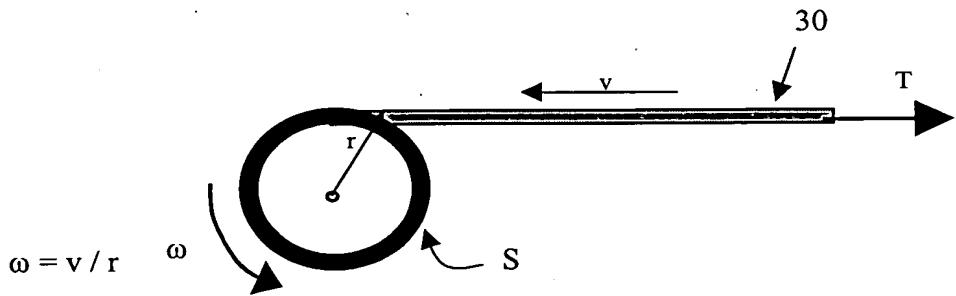


FIGURE 3

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

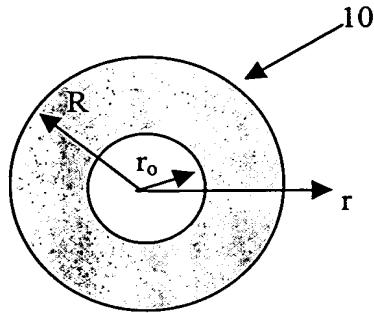


FIGURE 4A

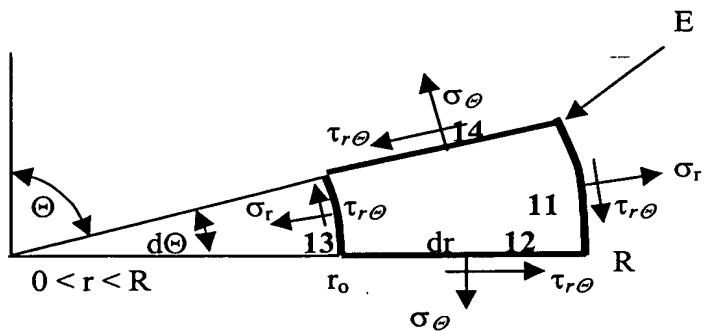


FIGURE 4B

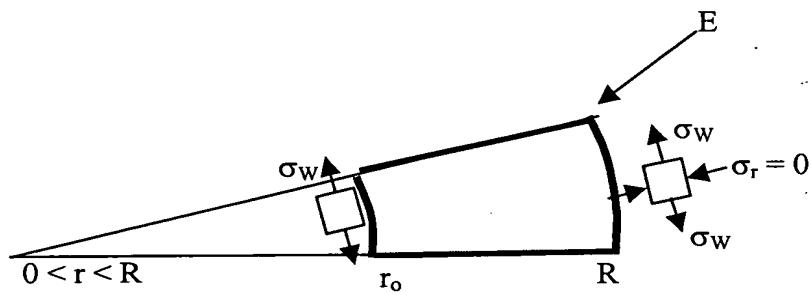


FIGURE 4C

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

Stress, MPa

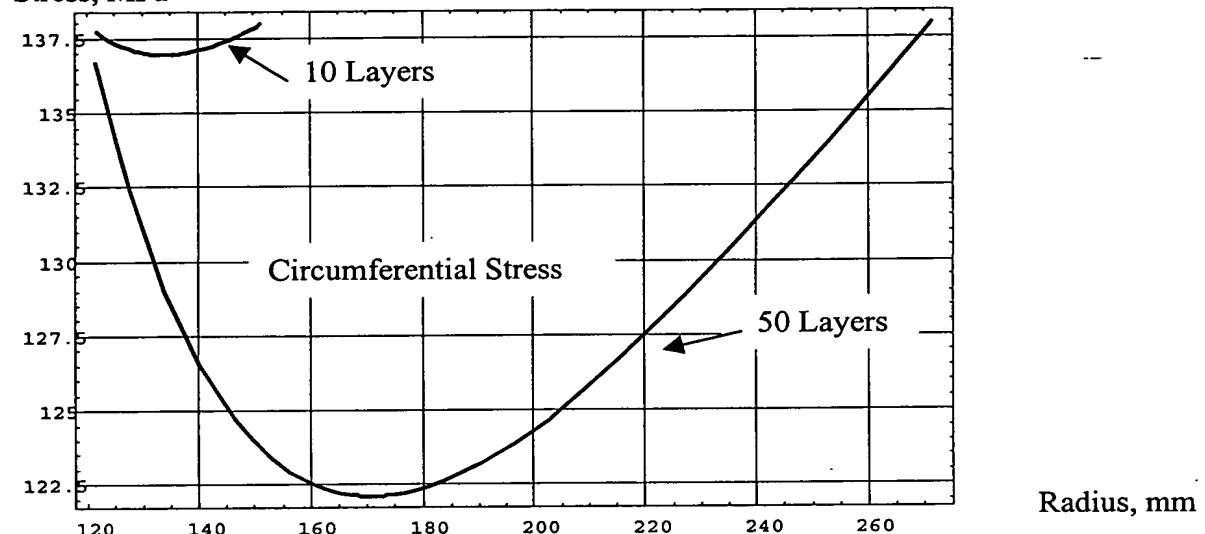


FIGURE 5A-1

Stress, MPa

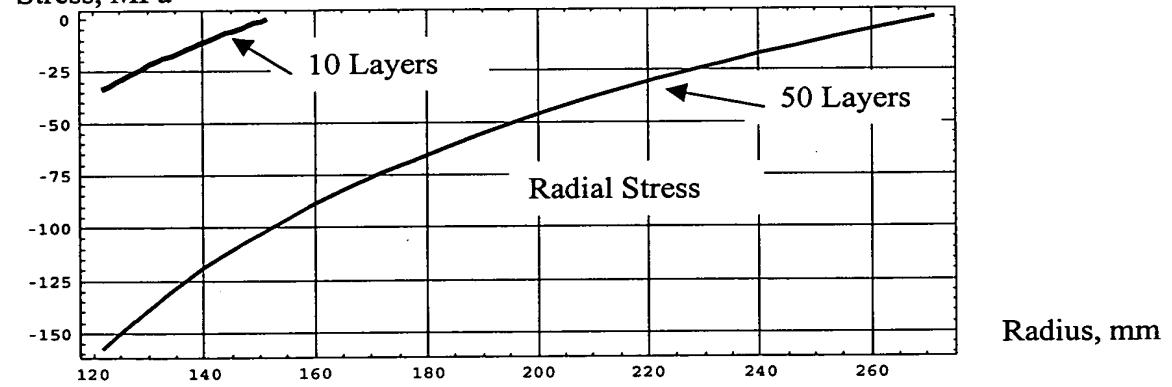


FIGURE 5A-2

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

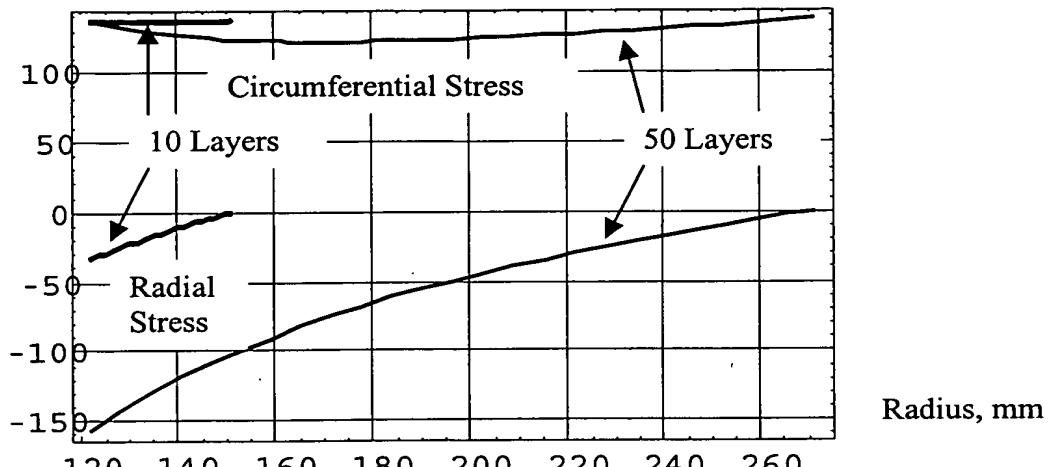


FIGURE 5A-3

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U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

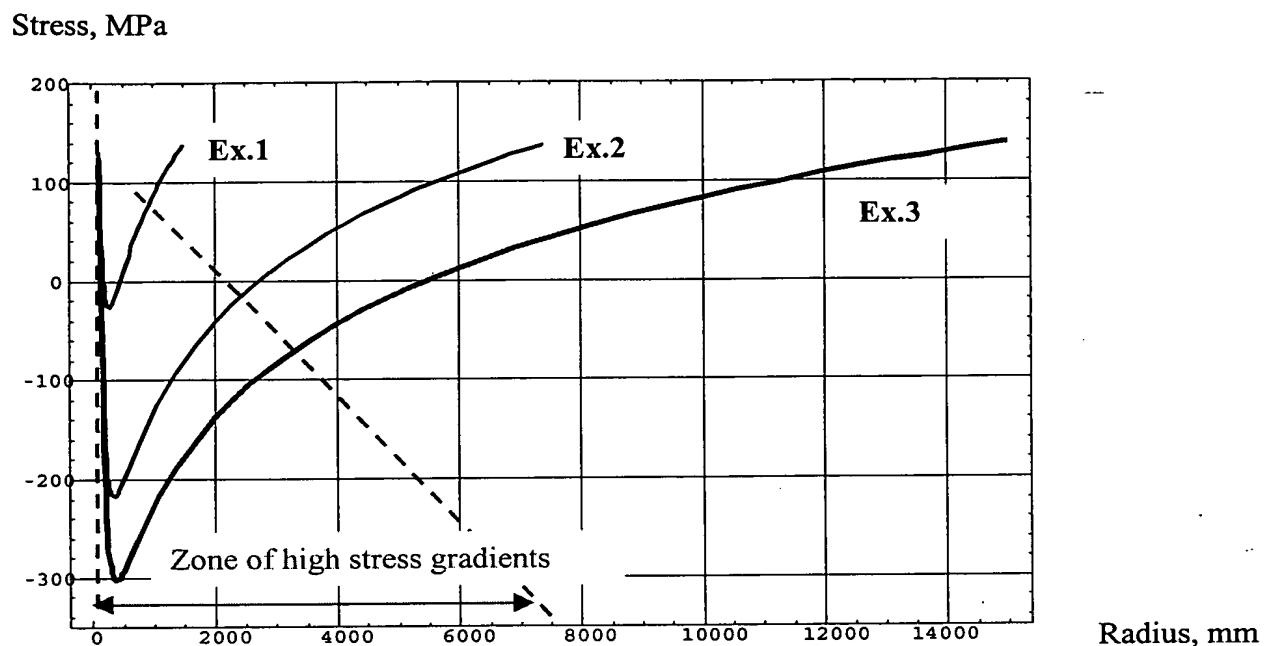


FIGURE 5B-1

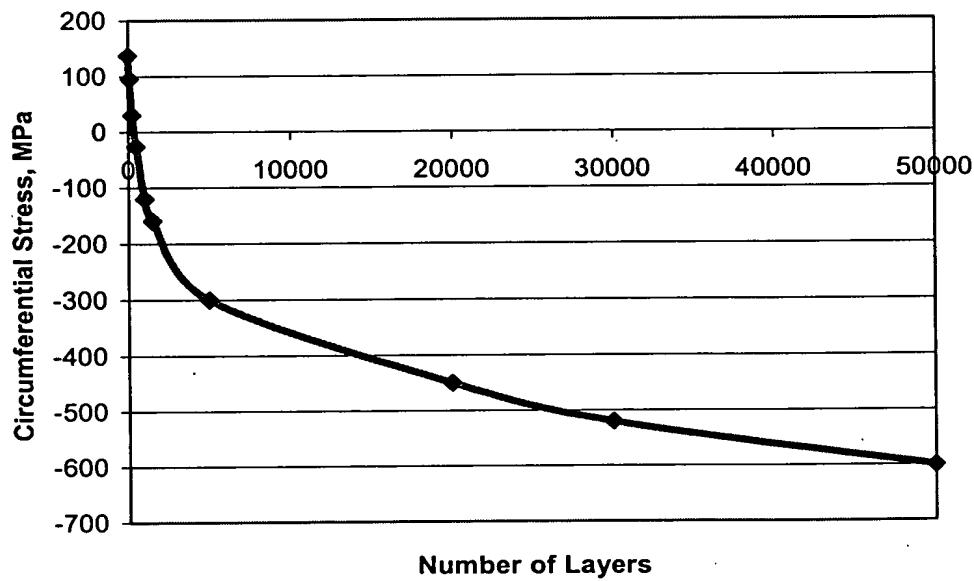


FIGURE 5B-2

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

Strain

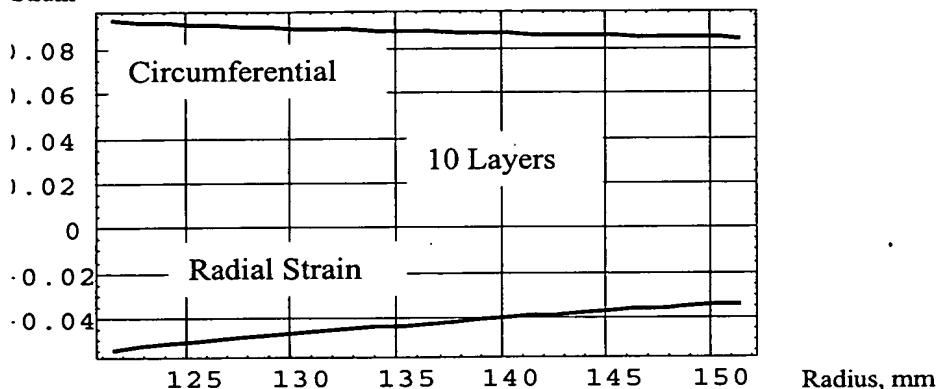


FIGURE 6-1

Strain

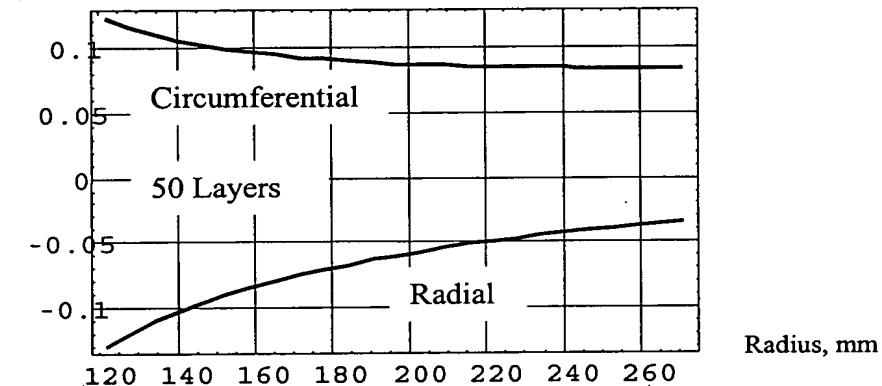


FIGURE 6-2

Strain

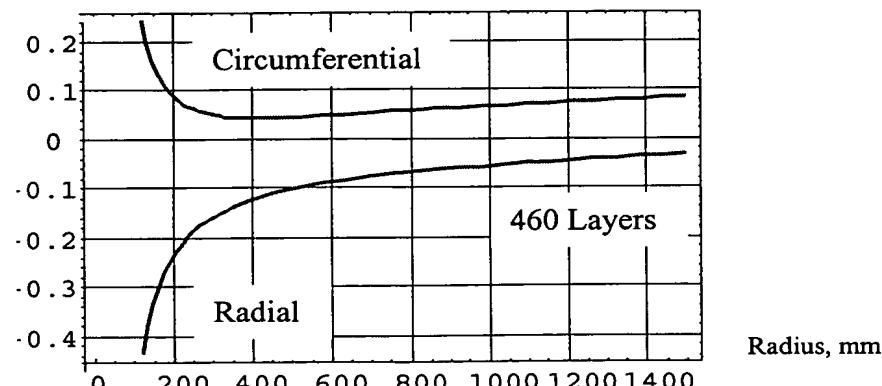


FIGURE 6-3

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

EFL

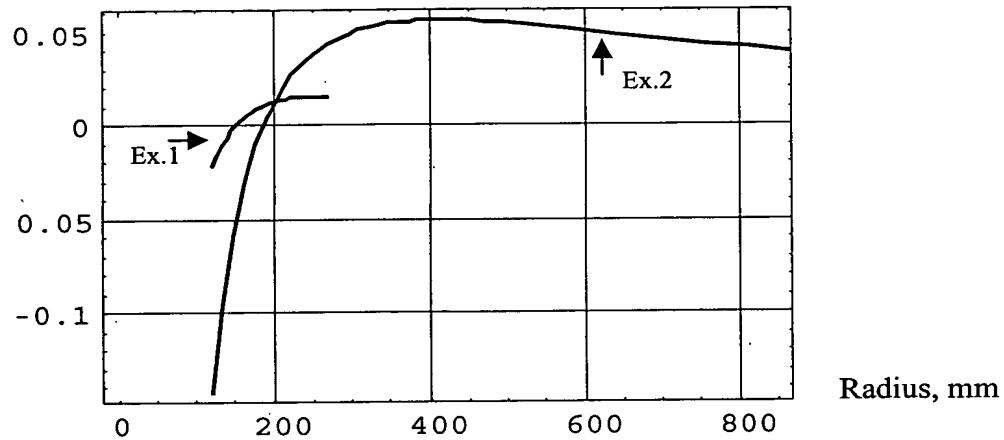


FIGURE 7-1

EFL

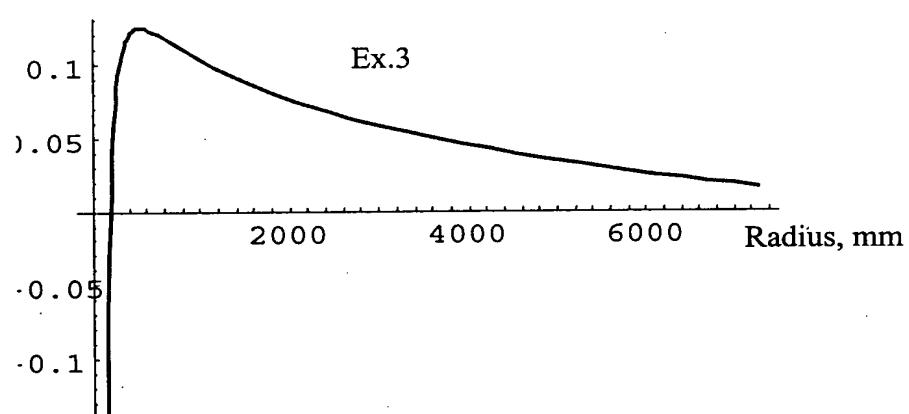
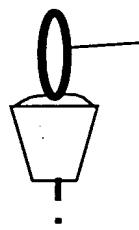
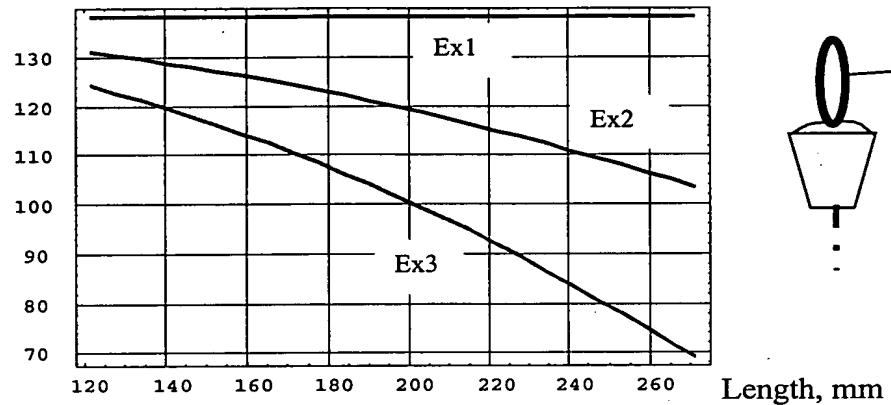


FIGURE 7-2

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

Take-up Tension, MPa



Monotonically decaying take-up tension can be achieved using a bucket of water with a valve.

FIGURE 8

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

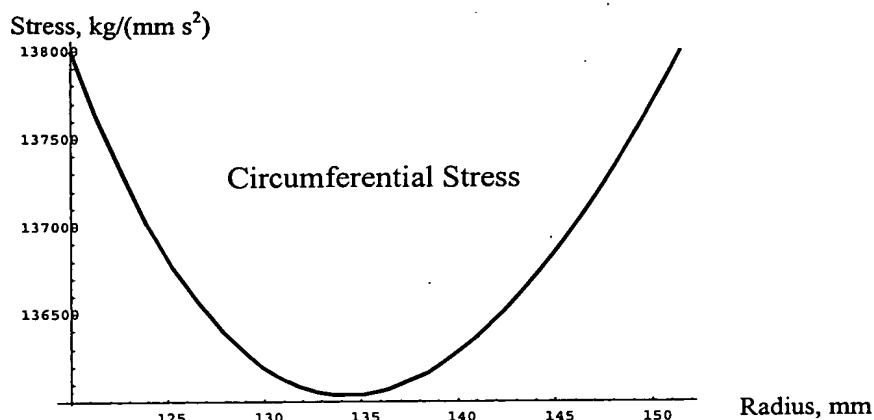


FIGURE 9A-1

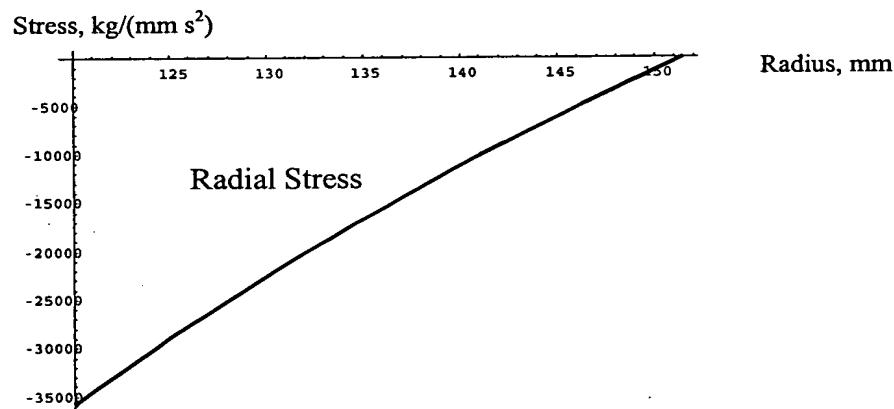


FIGURE 9A-2

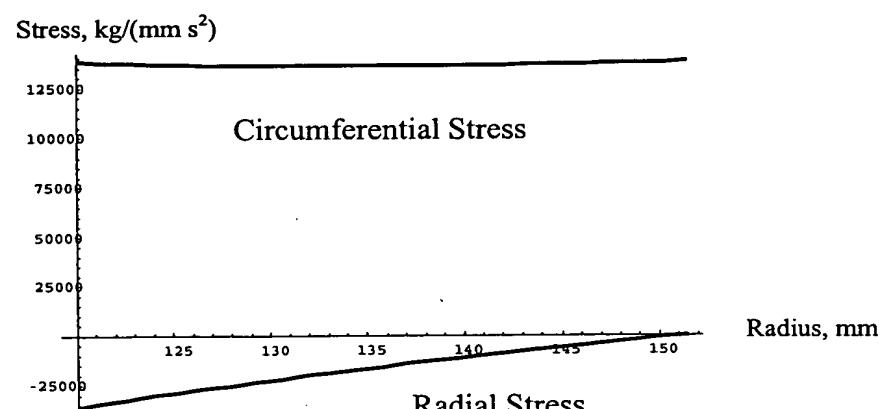


FIGURE 9A-3

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

Stress, $\text{kg}/(\text{mm s}^2)$

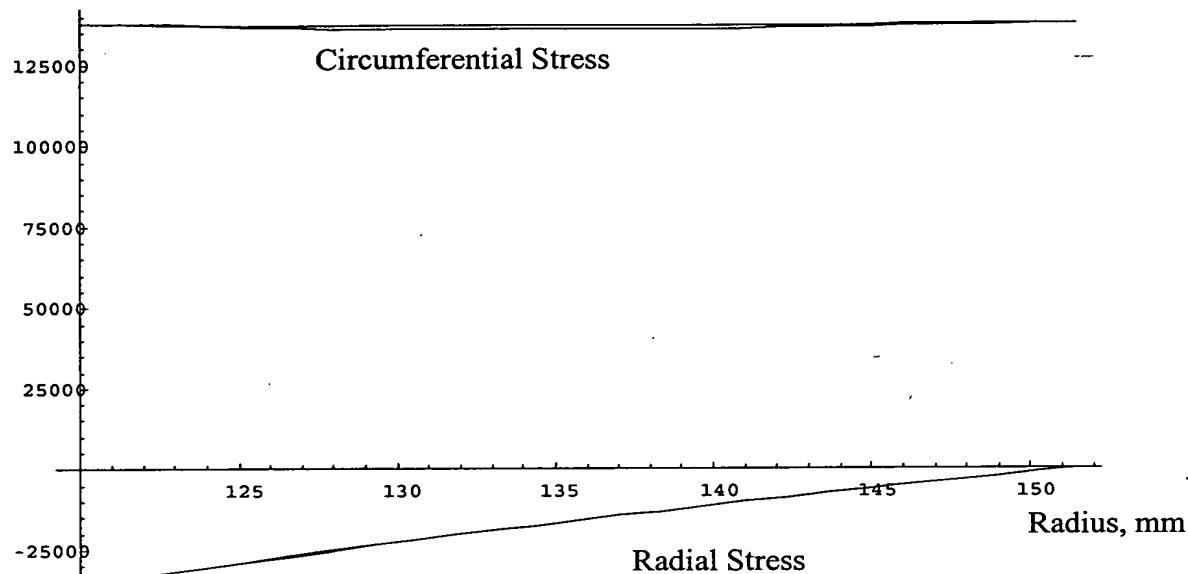


FIGURE 9B-1

Stress, $\text{kg}/(\text{mm s}^2)$

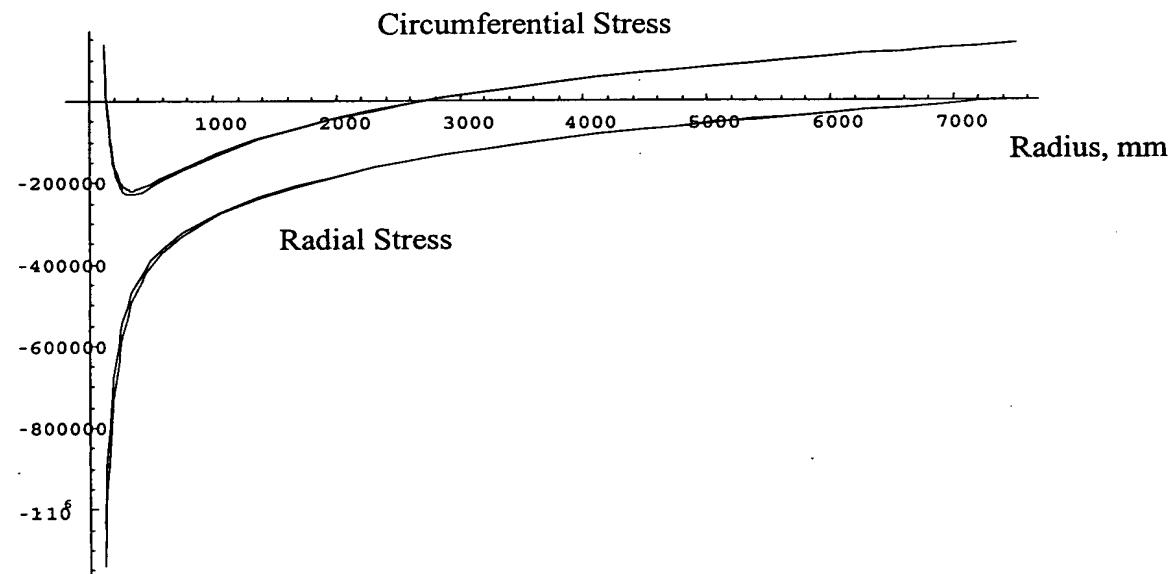


FIGURE 9B-2

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

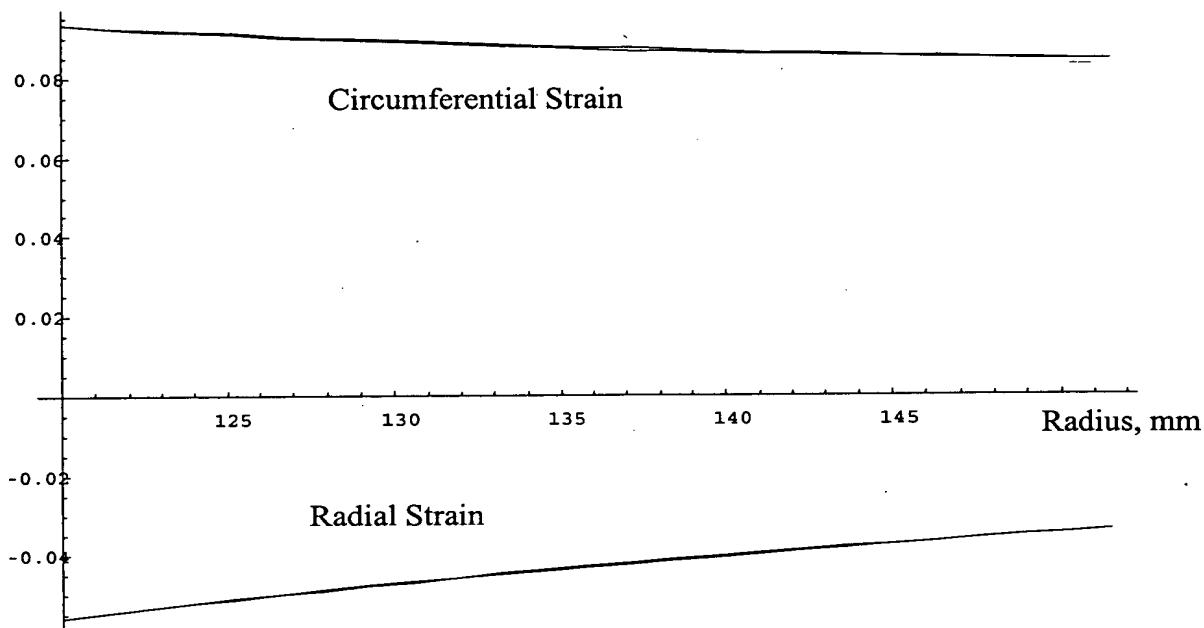


FIGURE 9C-1

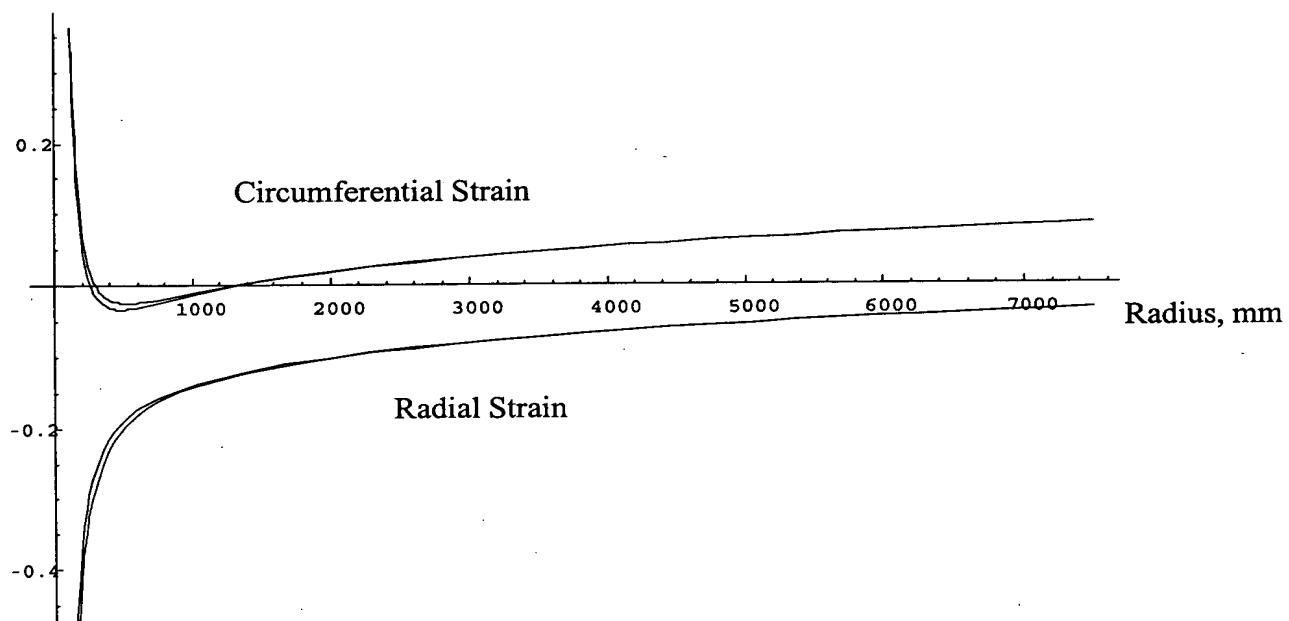


FIGURE 9C-2

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

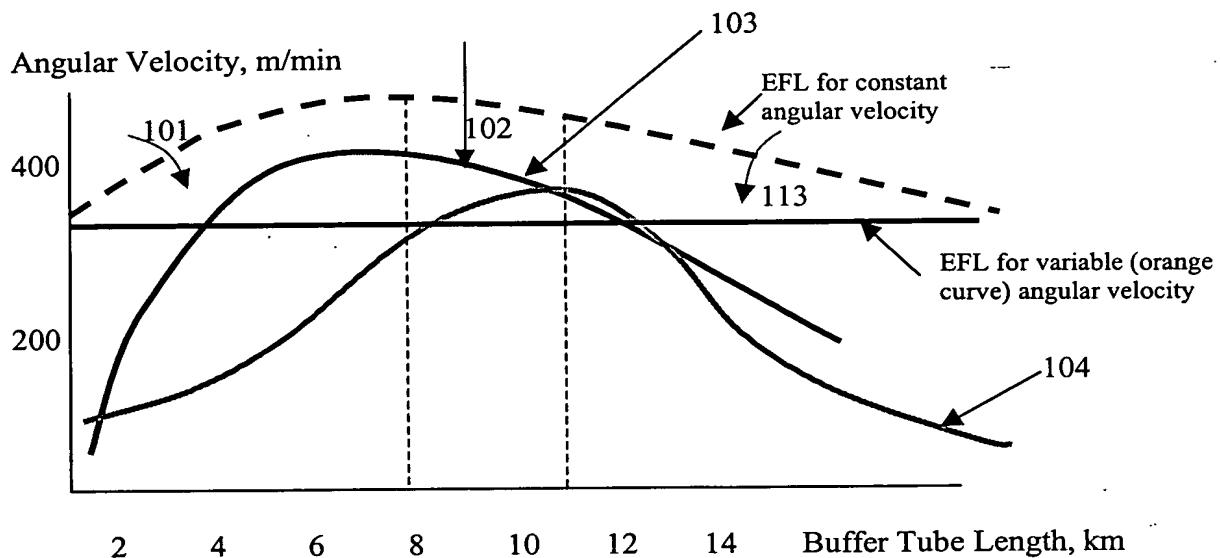


FIGURE 10

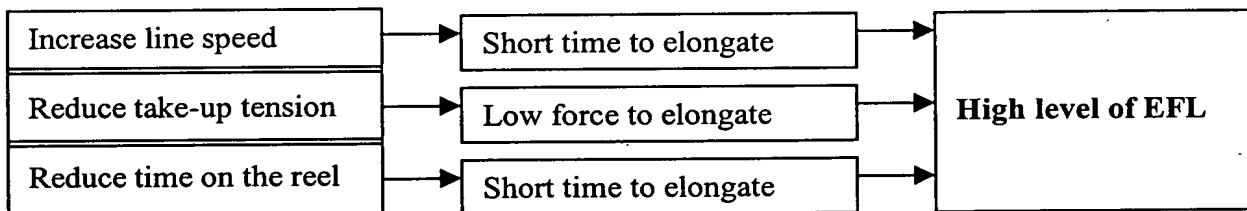


FIGURE 11

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

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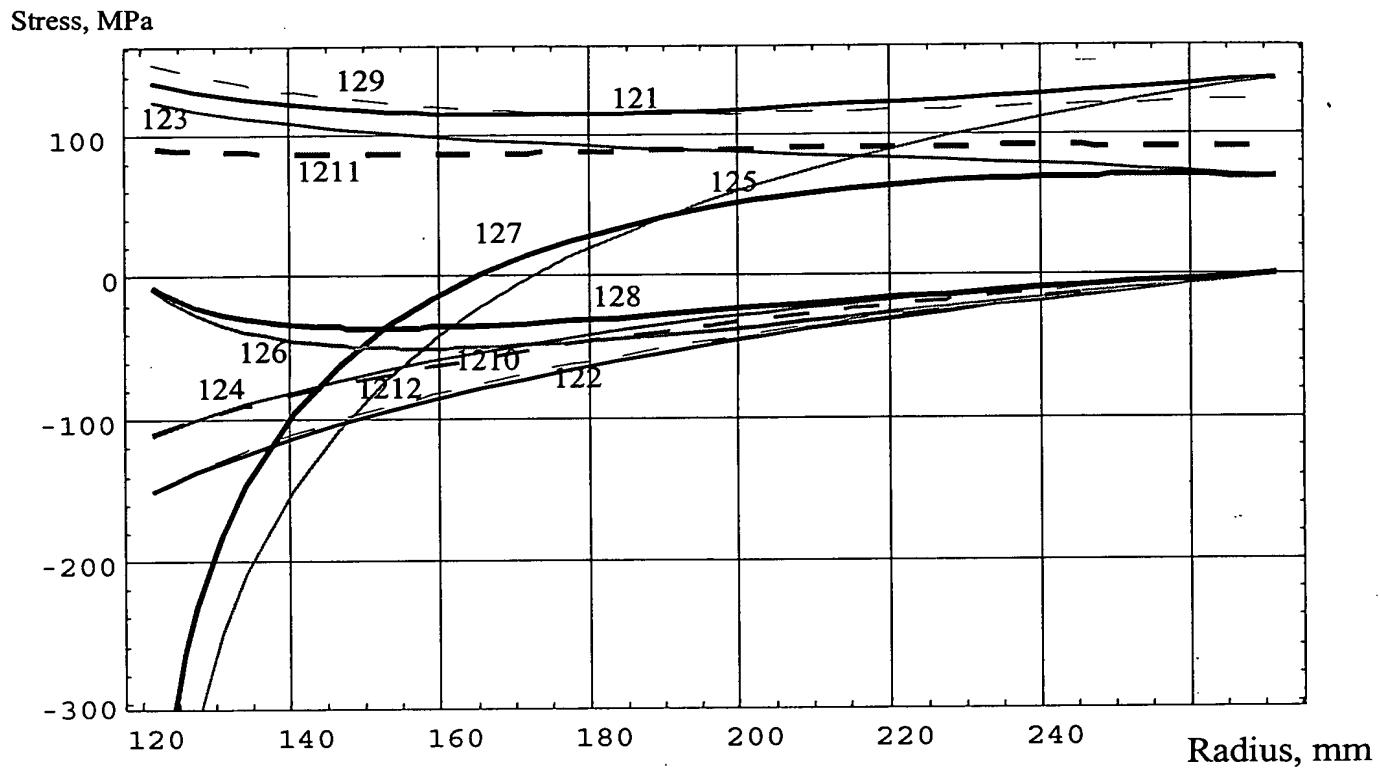


FIGURE 12

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

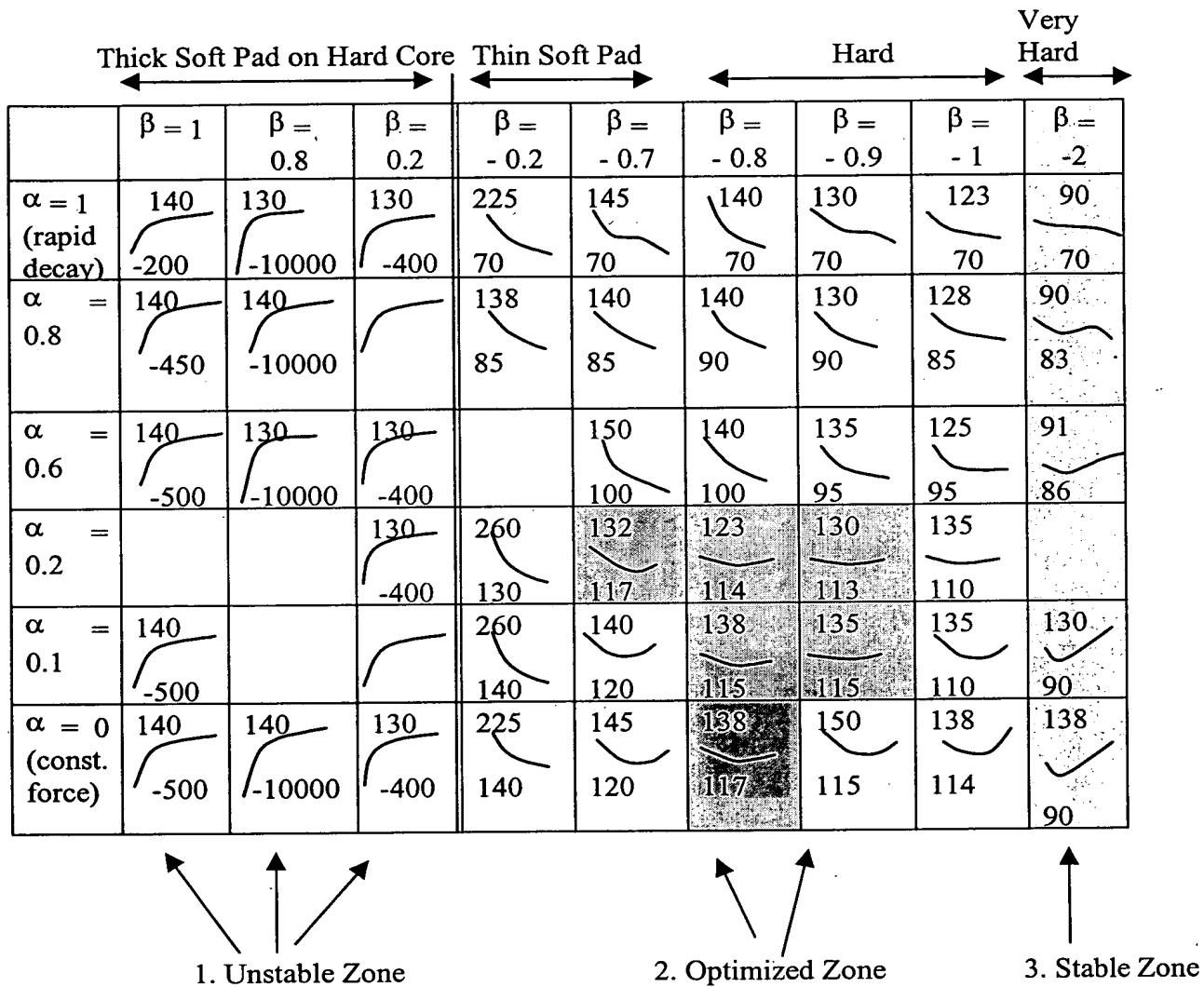


FIGURE 13

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

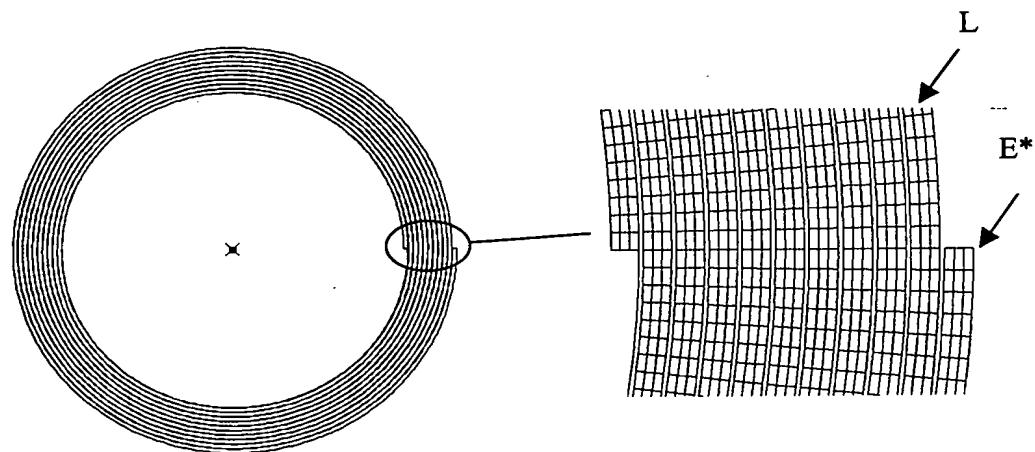


FIGURE 14A

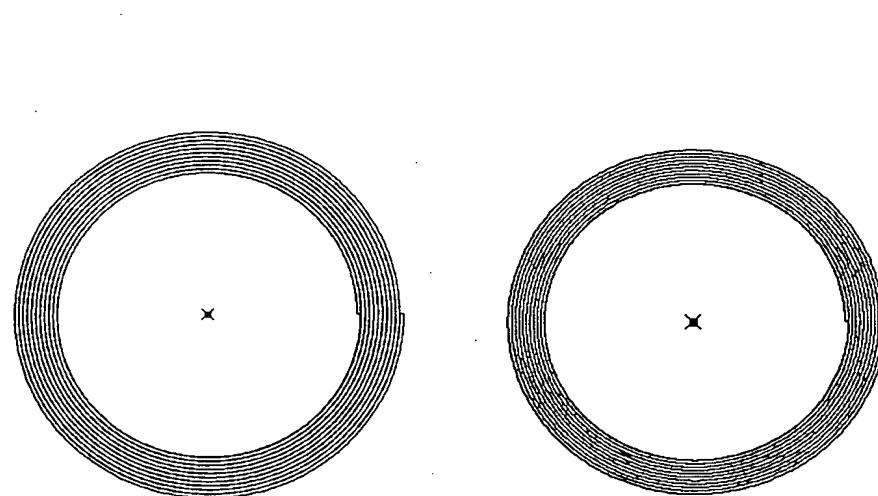


FIGURE 14B

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

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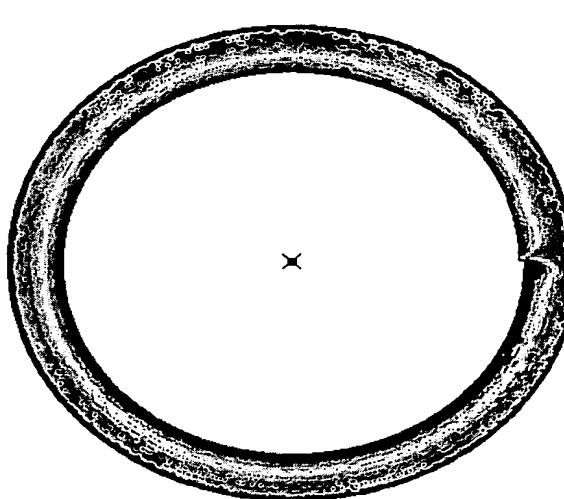
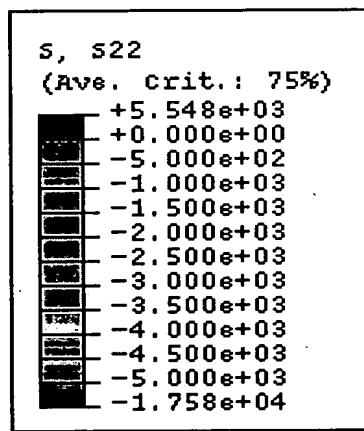
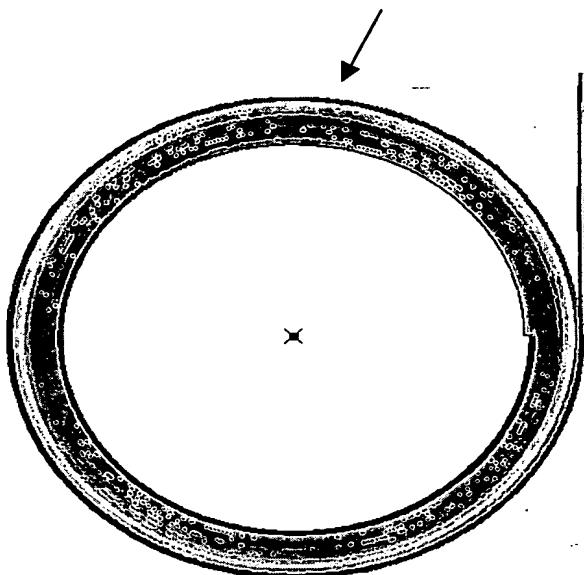
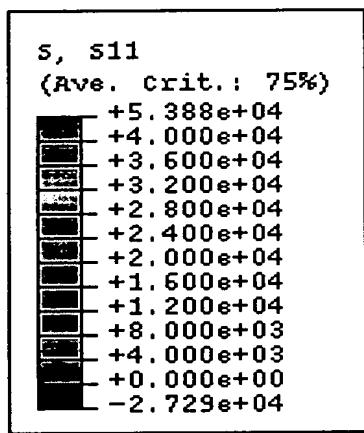


FIGURE 14C

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

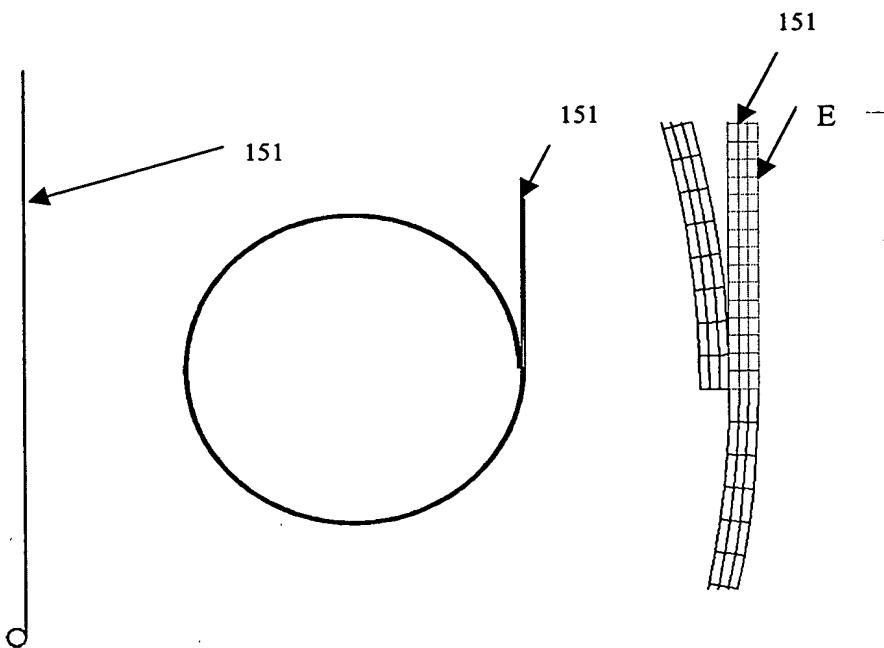


FIGURE 15A

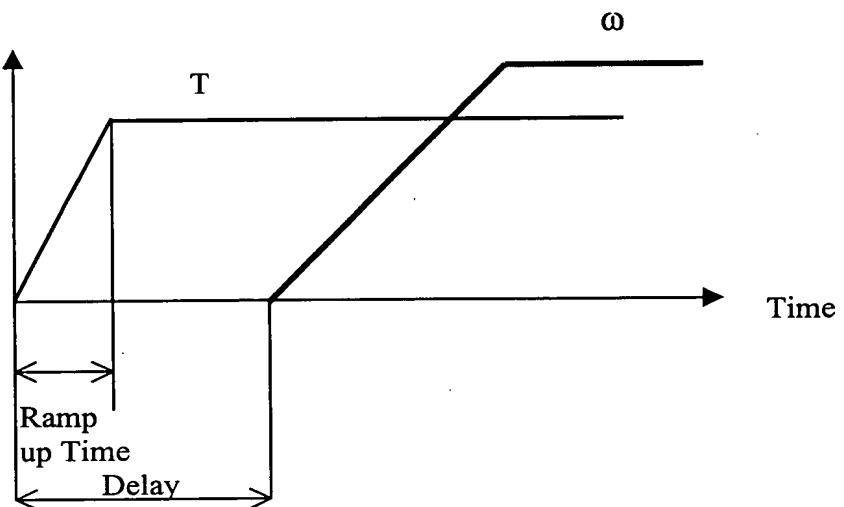


FIGURE 15B

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

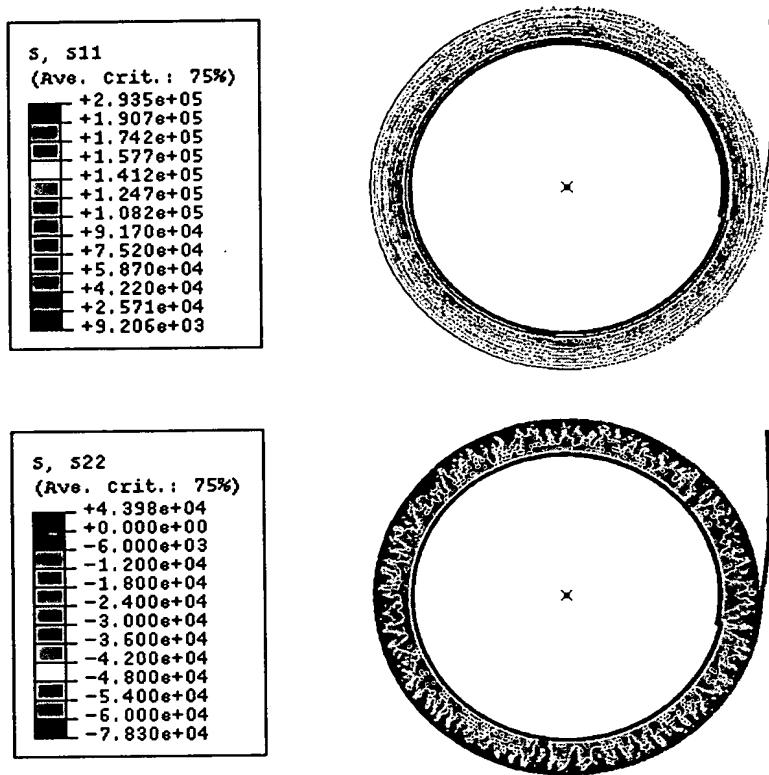


FIGURE 15C

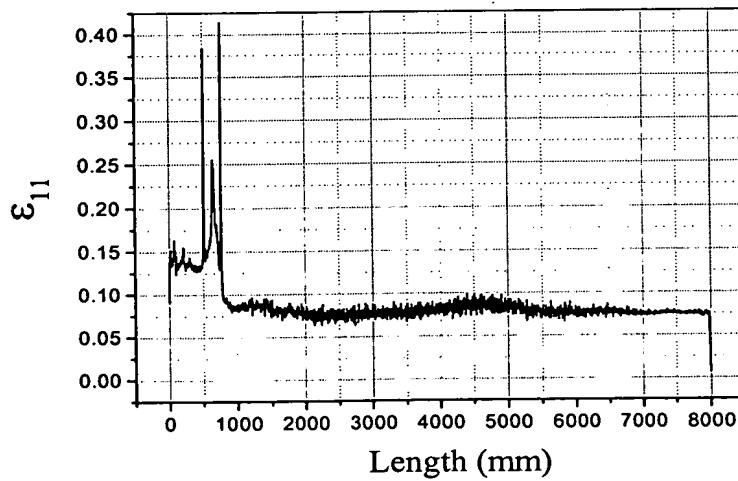


FIGURE 15D

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

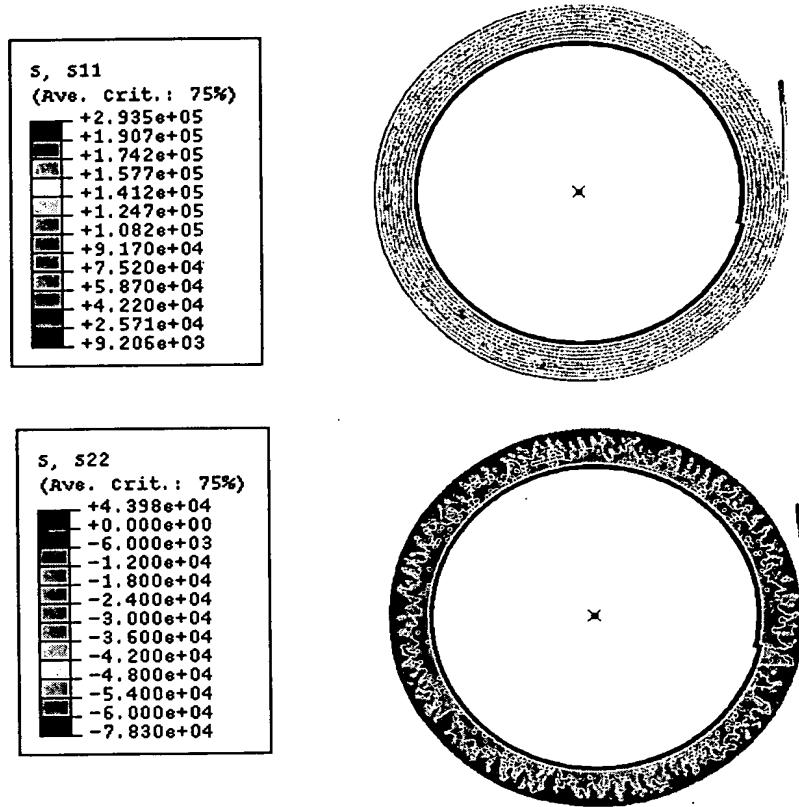


FIGURE 16

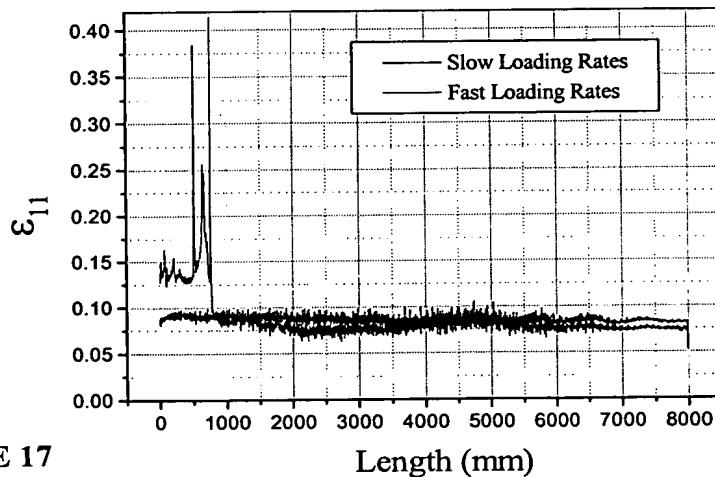


FIGURE 17

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

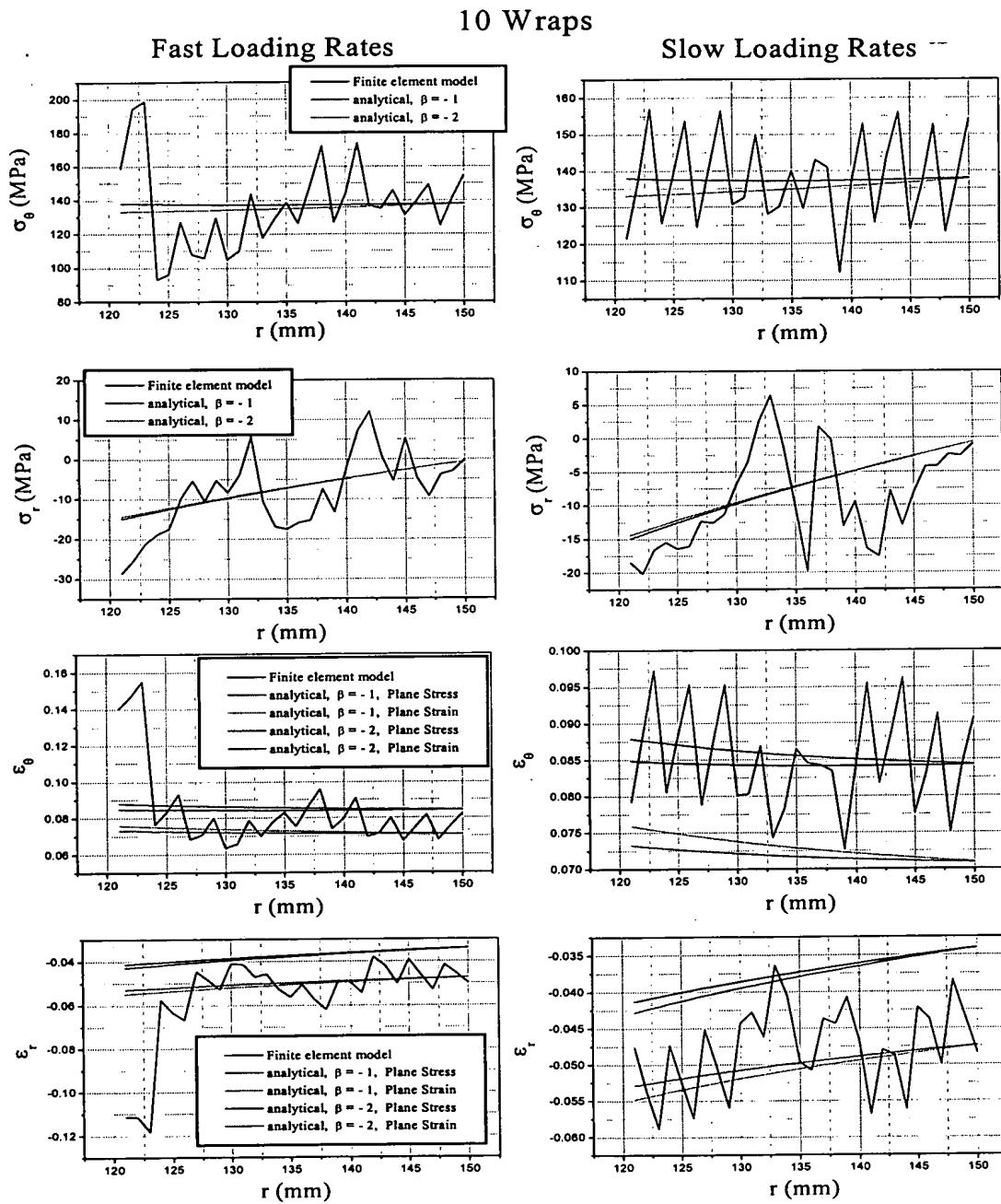
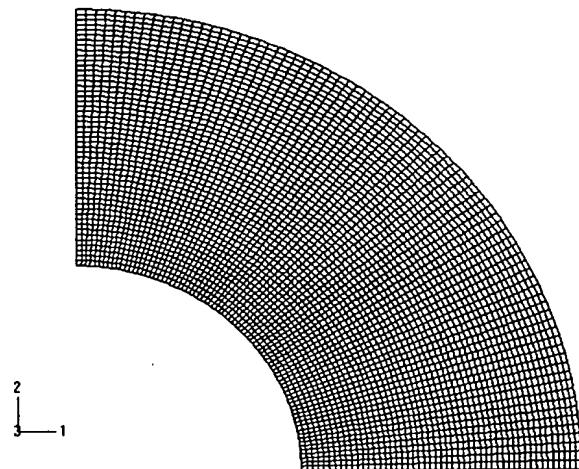
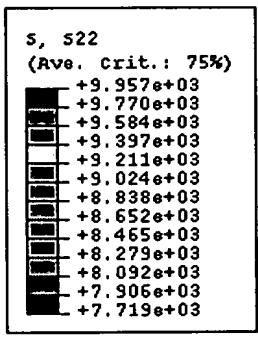
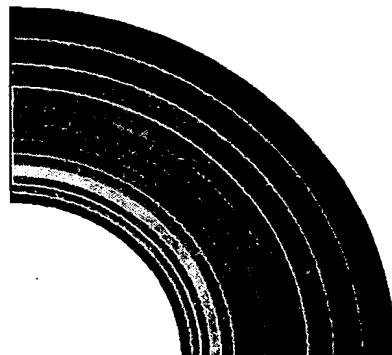
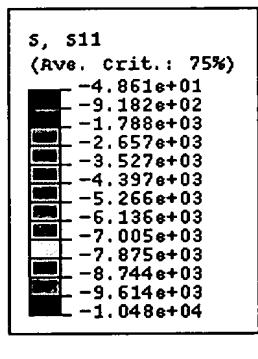


FIGURE 18

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

**FIGURE 19A****FIGURE 19B**

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

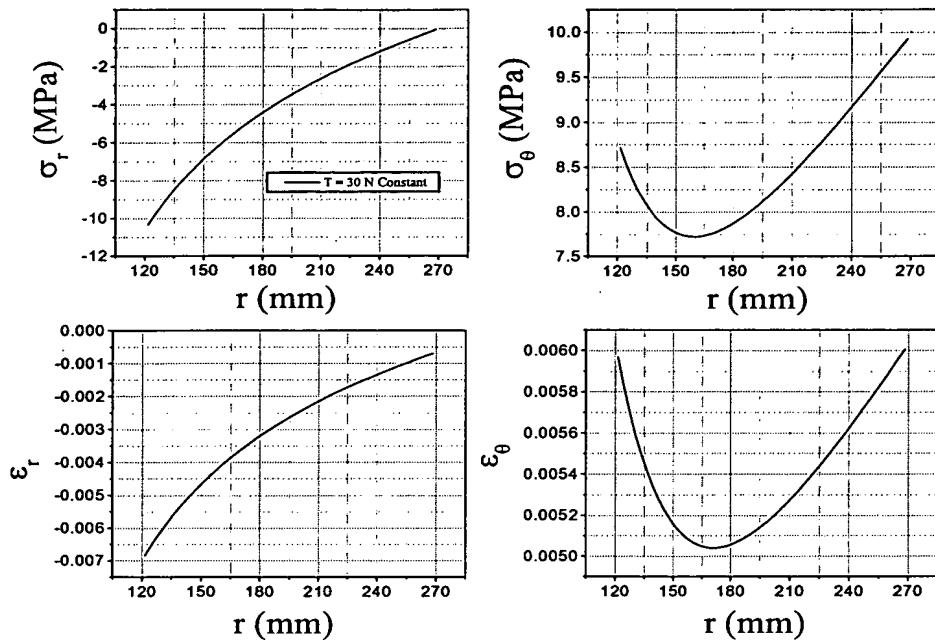


FIGURE 19C

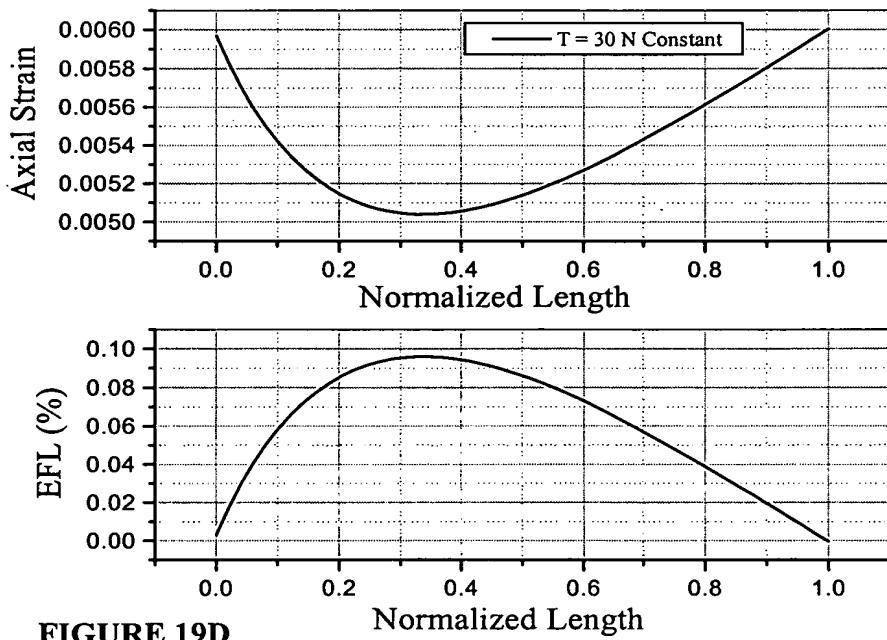


FIGURE 19D

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

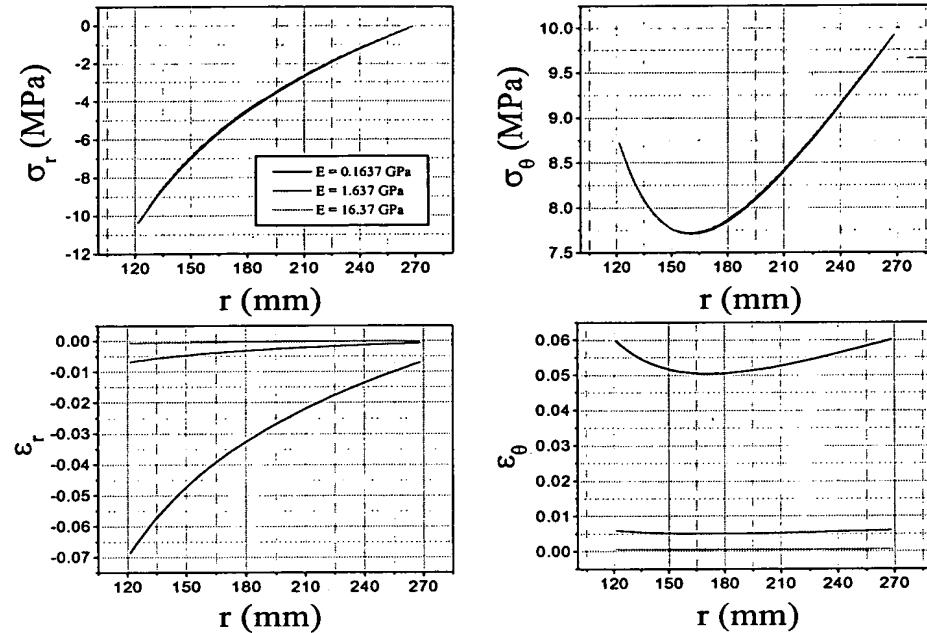


FIGURE 20

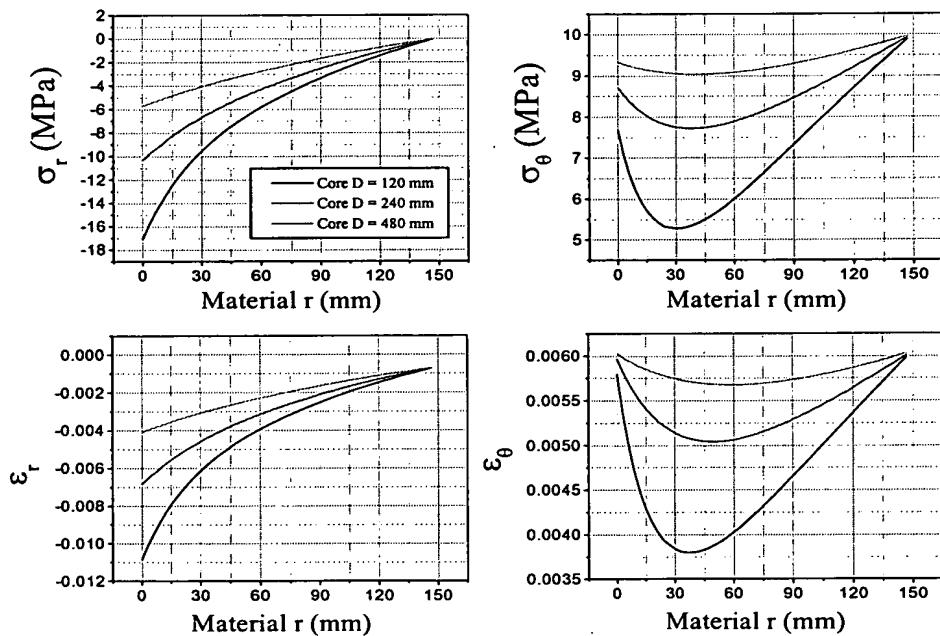


FIGURE 21

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

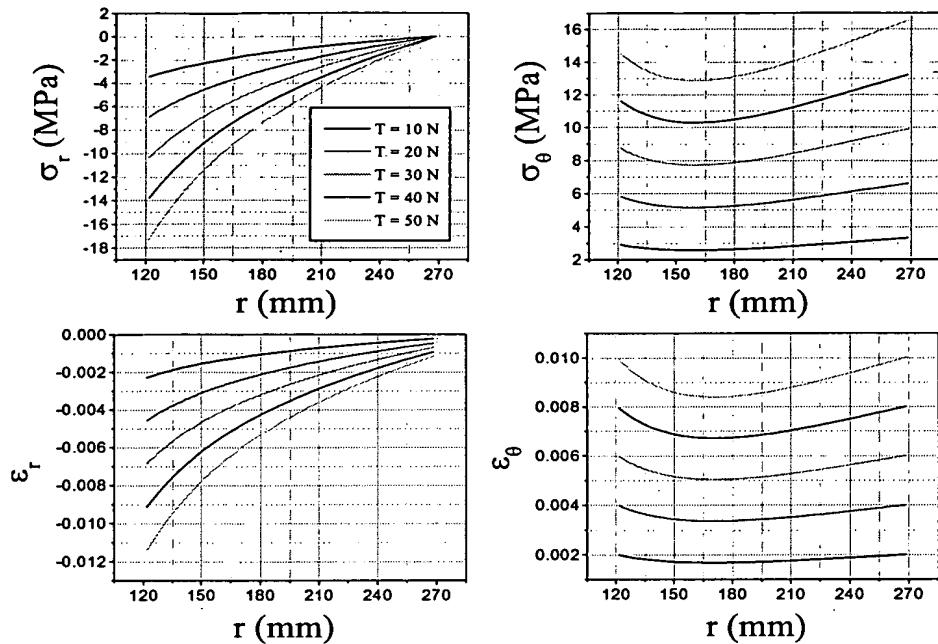


FIGURE 22

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitalo, Dean Rattazzi, Matthew Soltis and Mike Rossi

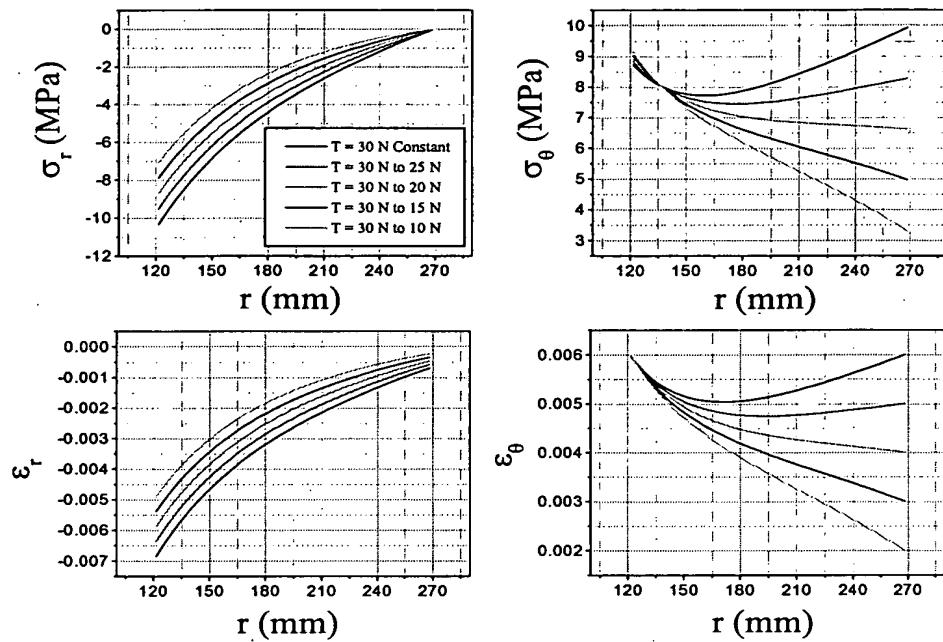


FIGURE 23

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

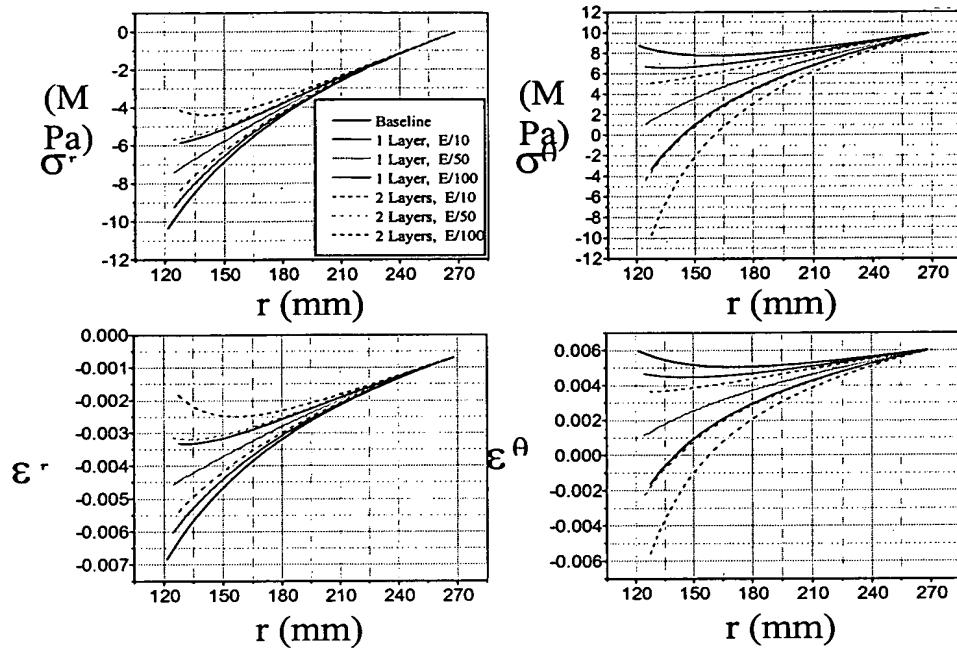


FIGURE 24

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitalo, Dean Rattazzi, Matthew Soltis and Mike Rossi

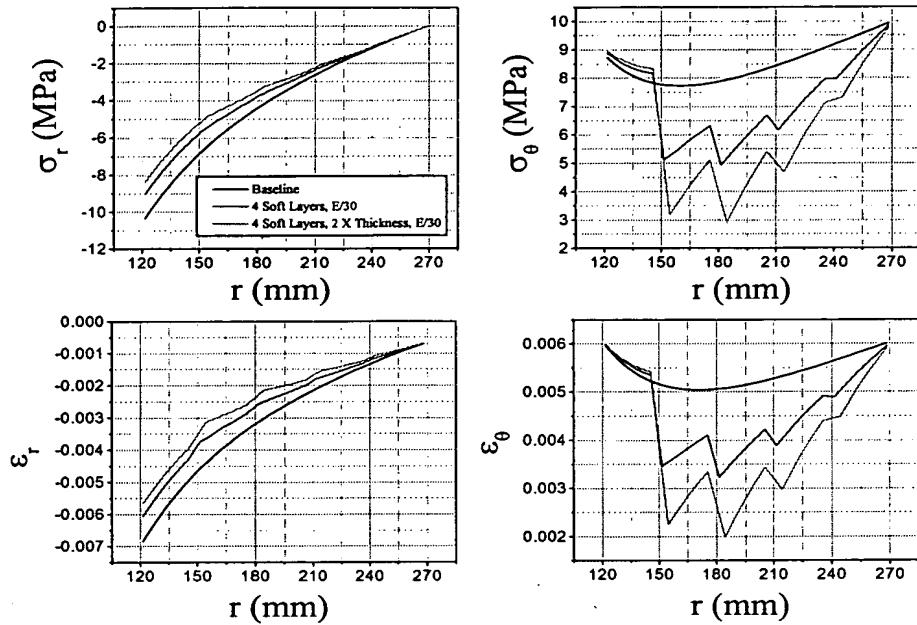


FIGURE 25A

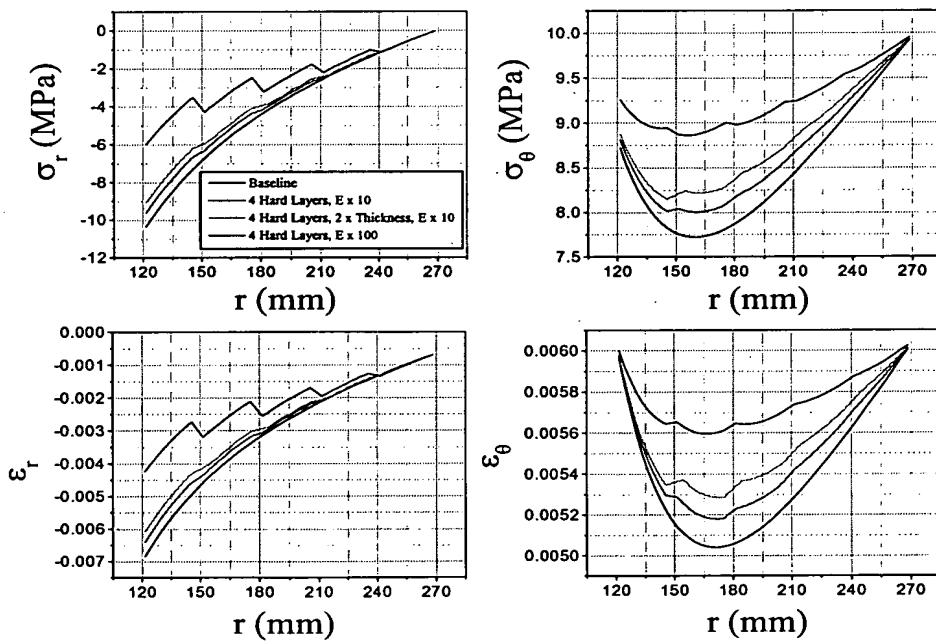


FIGURE 25B

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

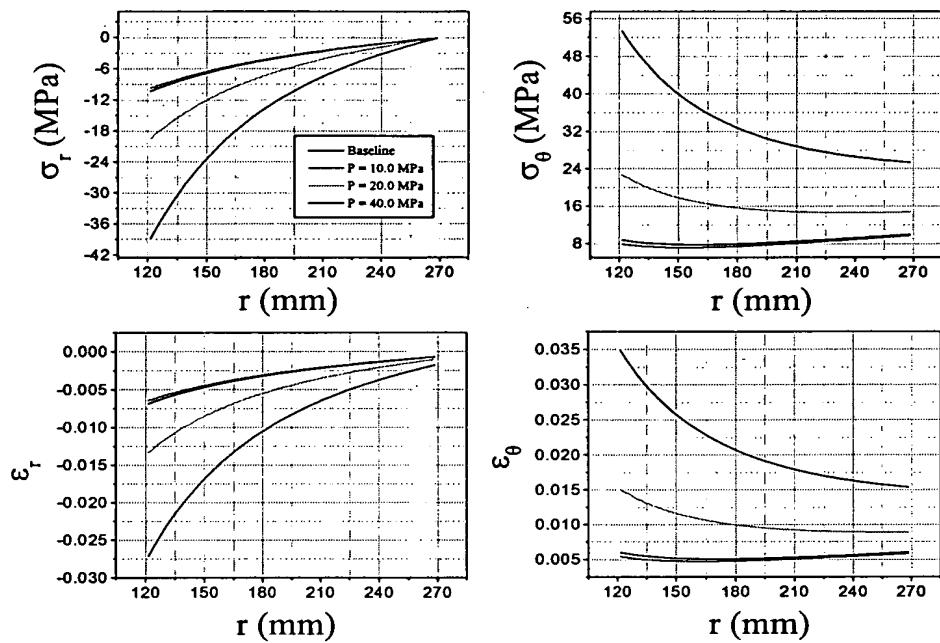


FIGURE 25C

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitallo, Dean Rattazzi, Matthew Soltis and Mike Rossi

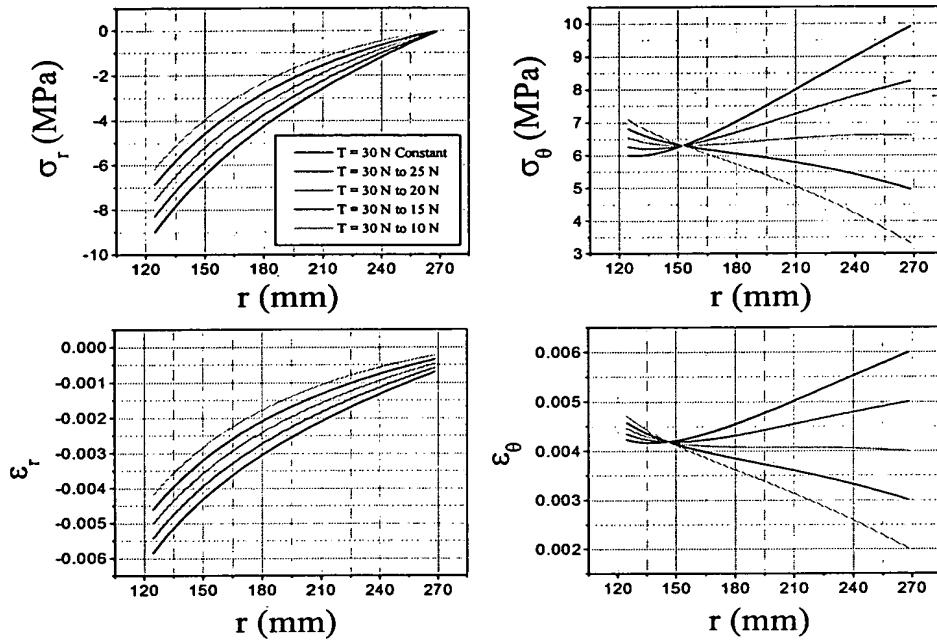


FIGURE 26A

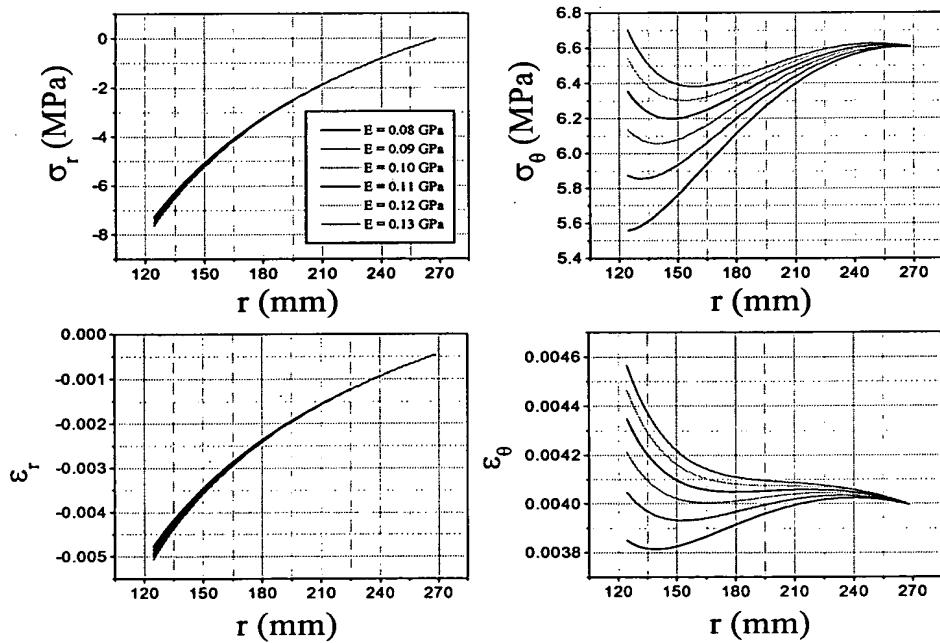


FIGURE 26B

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

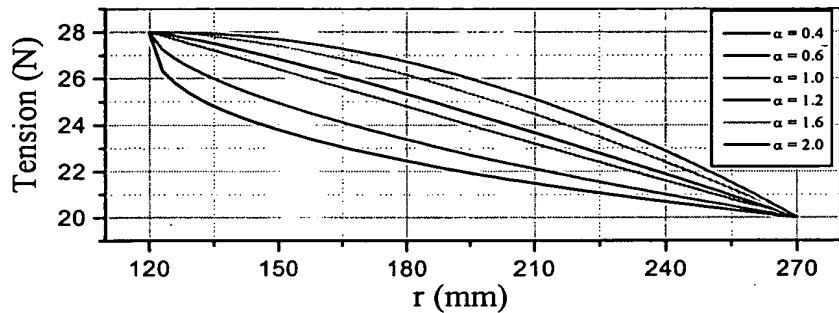


FIGURE 27A

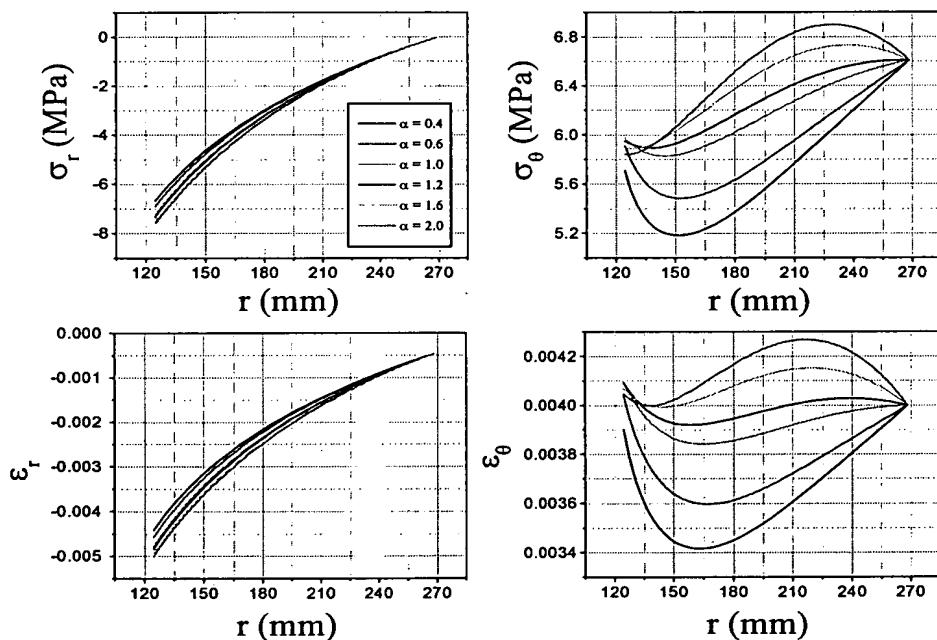


FIGURE 27B

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

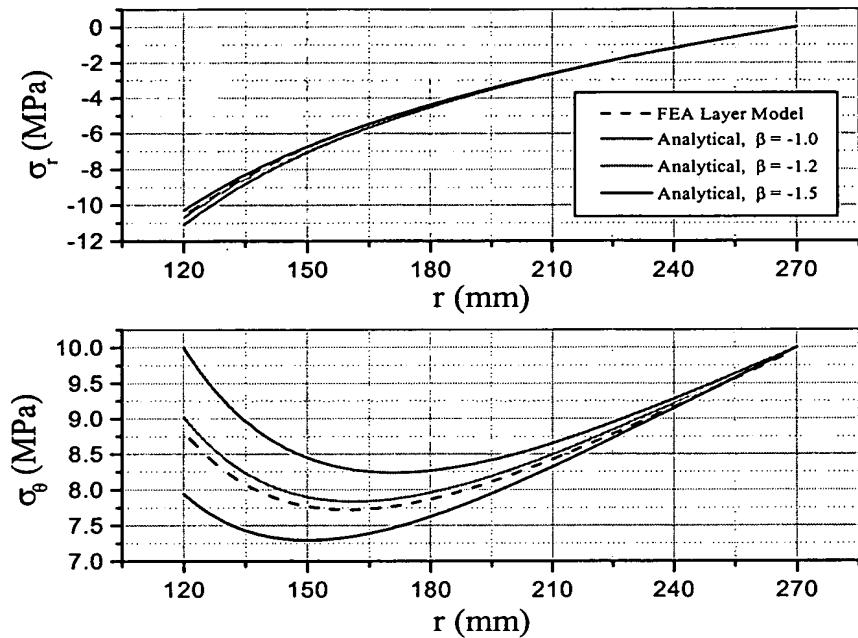


FIGURE 28

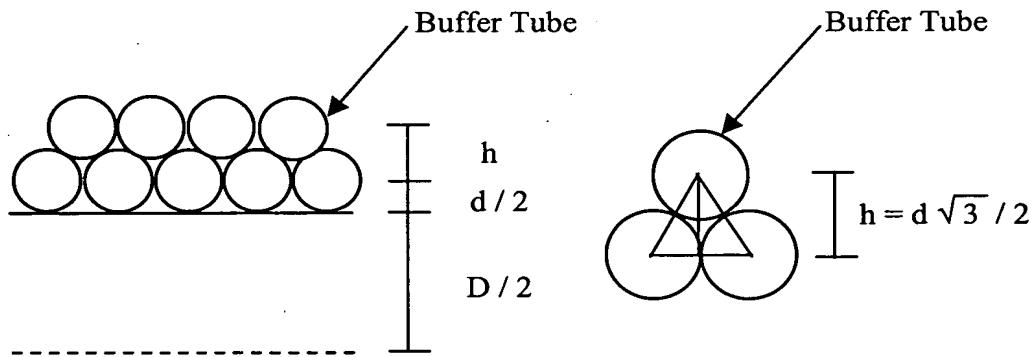


FIGURE 29

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitalo, Dean Rattazzi, Matthew Soltis and Mike Rossi

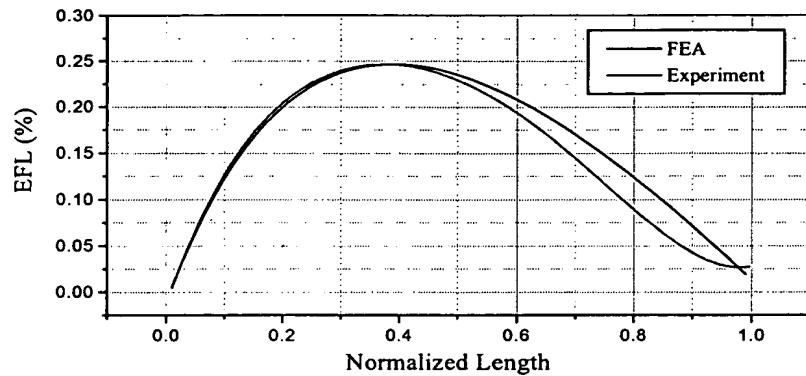


FIGURE 30

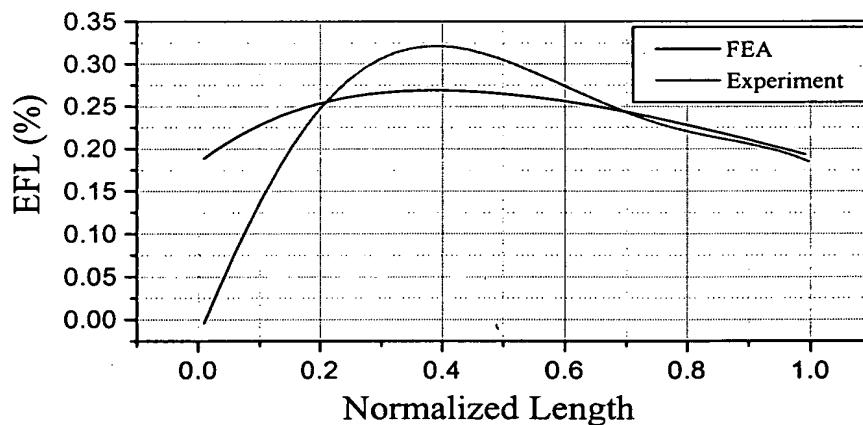


FIGURE 31

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

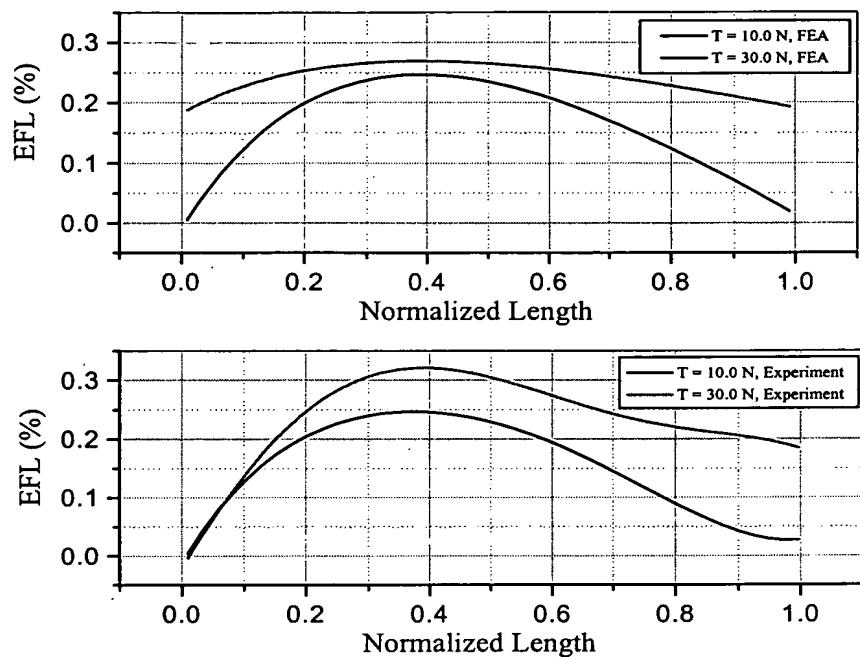


FIGURE 32A

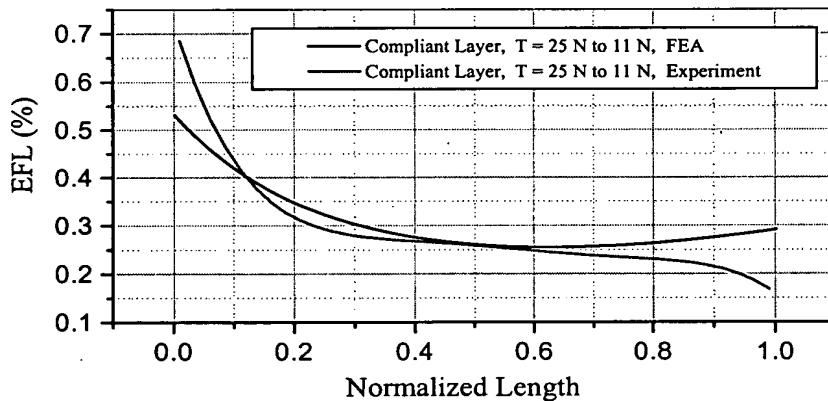


FIGURE 32B

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

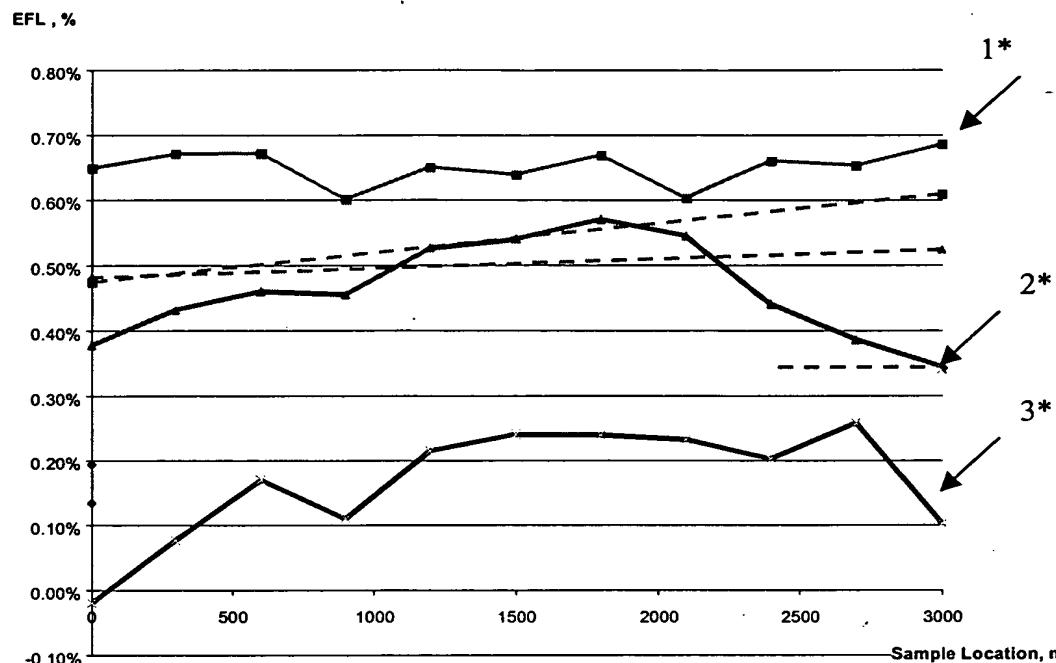


FIGURE 33

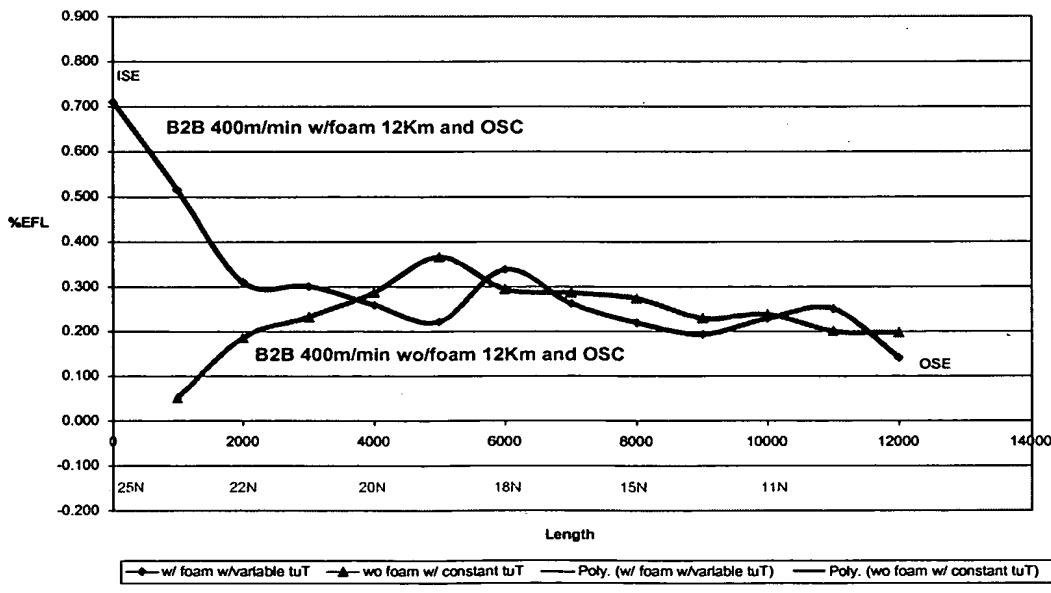


FIGURE 34

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

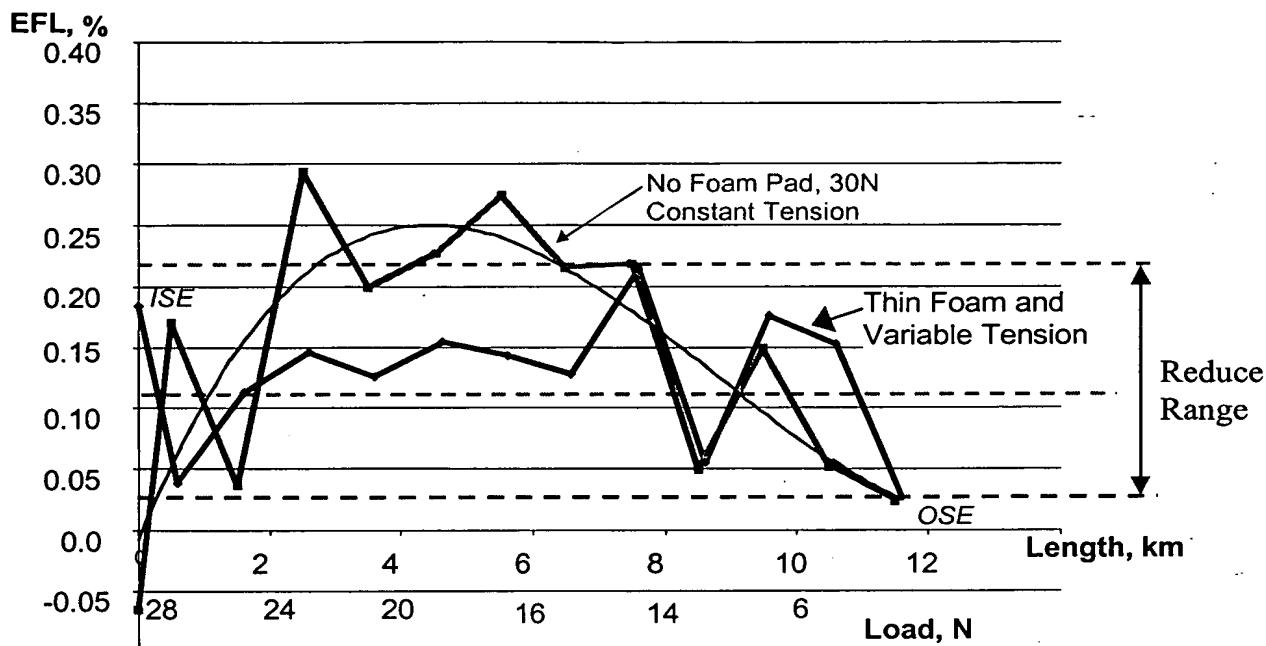


FIGURE 35

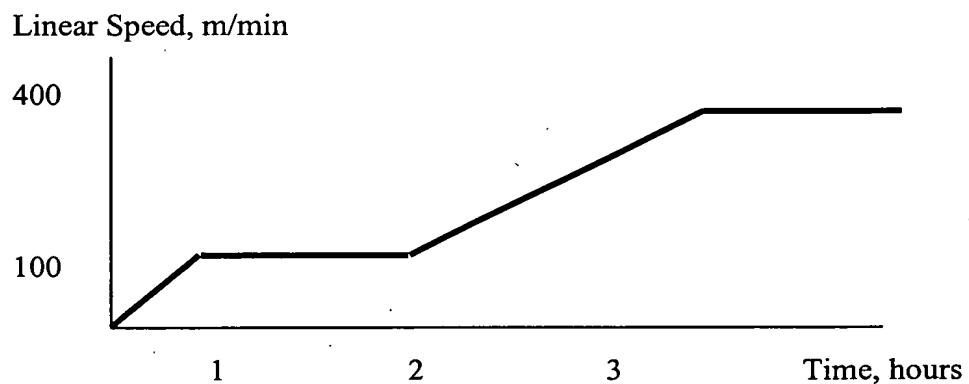


FIGURE 36

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

FIGURE 37
ROSSIMT27

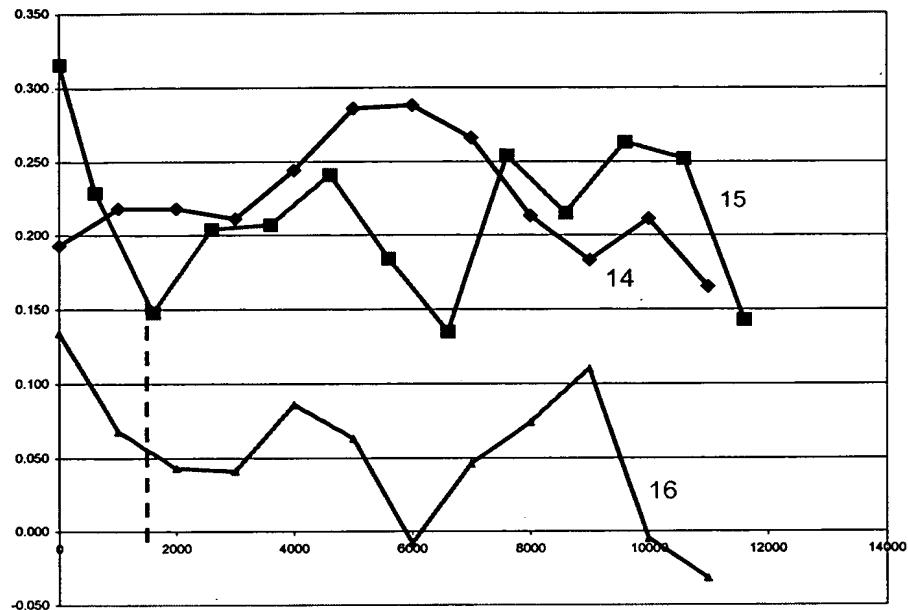


FIGURE 37

ROSSIMT27

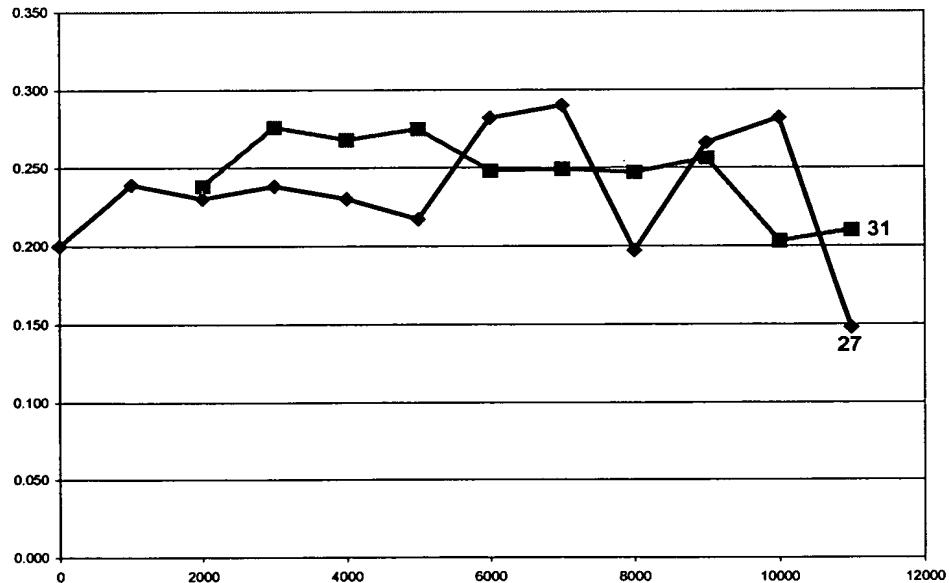


FIGURE 39

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

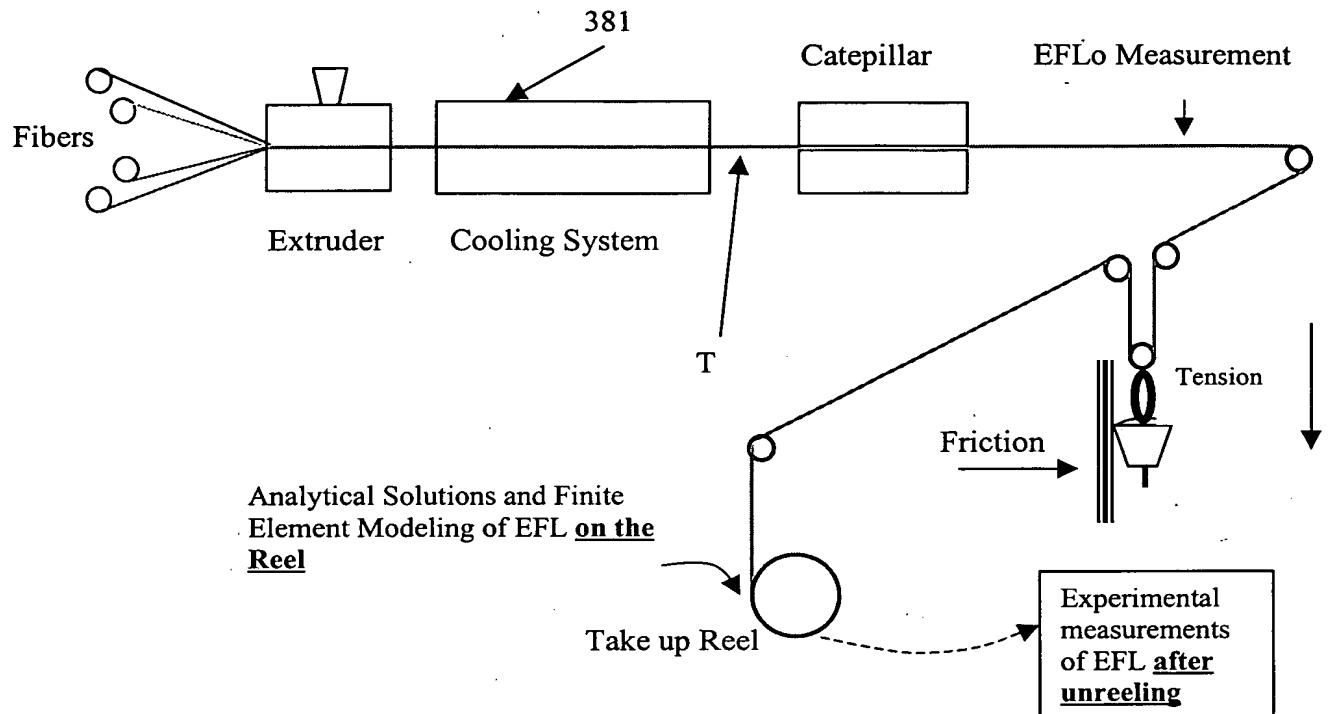


FIGURE 38

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

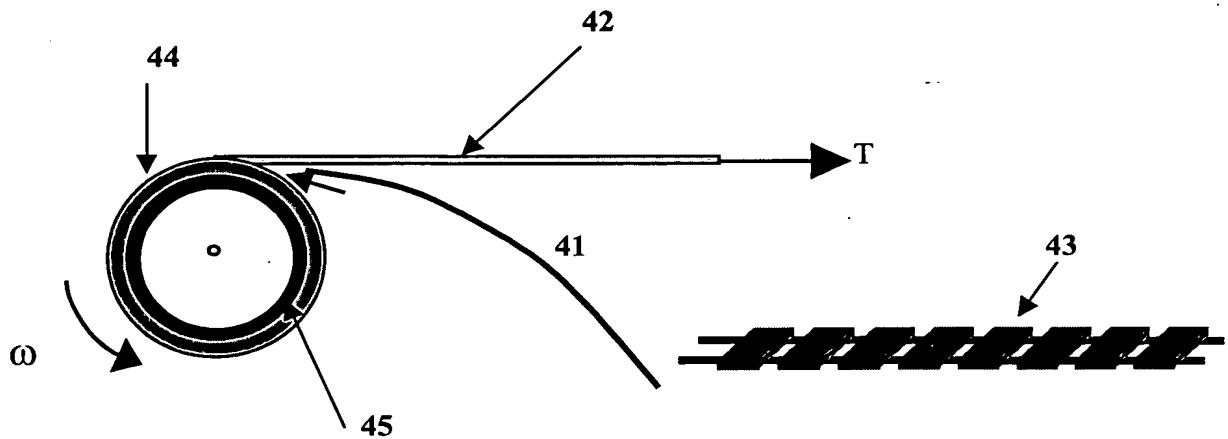


FIGURE 40

Figure 41

